Case 17-36605 Document 88-2 Filed in TXSB on 05/16/18 Page 1 of 133

Blazer Inspection, Inc. 2602 Texas Ave. Texas City, TX 77590 US 409-948-1012 jspruiell@blazerinspection.com www.blazerinspection.com



BILL TO Paragon Fab, Inc. 500 Main La Marque, Tx 77568 **INVOICE 2240**

DATE 01/08/2018 TERMS Net 30

DUE DATE 02/07/2018

PURCHASE ORDER 2286-4645

ACTIVITY	QTY	RATE	AMOUNT
Magnetic Particle / Liquid Penetrant / Vacuum Box Examinations:2 Person Magnetic Particle Testing Crew ST @LaMarque, MT Report #14586, 1/5/2018	6	92.00	552.00
Consumables:MT Materials:Aerosol Cans	1	23.00	23.00
Miscellaneous Charges:NDE Truck	1	65.00	65.00

TOTAL DUE \$640.00

BLAZER INSPECTION

Nondestructive Testing

2602 Texas Avenue • Texas City, TX 77590

		-	(409) 940-1012	Report	14586
Customer	aragon			Texc	15
Job Referenc	2286-460	15	Date of Test	5-18	
Scope of Exa	mination MT 6		wiinessed by	ew	
Specification	B1-MT-400			tw	
	21 /11/2 100	VELO	Job Location	Marque TY	
	AAA CAUFTIC	DA DELOI E	T		
بد	MAGNETIC			PENETRANT	
WET	DRY 'S	AC DC	☐ VISIBLE	FLUORE	SCENT
AMPERE TURN	ISCIRC	CULAR AMPS 6 AMPS	PENETRANT	BATCH NO.	TIME
YOKE Park	er countour SIN	MIOOZ	EMULSIFIER	BATCH NO	TIME
DEMA	GNETIZED Ye	5	DEVELOPER	BATCH NO	TIME
ITEM	QUANTITY	DESCRIPTION		RESULTS OF IN	ISPECTION
ı	1	MT ROOF Pass on Ve W-2286-V-1	065e		Indications e of Inspection
lock Time fron	n A.M. <u>/0:00</u>	_ TO P.M. <u>4:00</u>	Material:/	can each	
avel Time	,	ork Time 6 Hr	-		
echnician	lauon Marti	TU LEVZL H	Mileage:		Λ
ssistant	1/1/13		CUSTOMER REPRESENTATIVE	1 Dans EV	

Case 17-36605 Document 88-2 Filed in TXSB on 05/16/18 Page 3 of 133

Blazer Inspection, Inc. 2602 Texas Ave. Texas City, TX 77590 US 409-948-1012 jspruiell@blazerinspection.com www.blazerinspection.com



BILL TO Paragon Fab, Inc. 500 Main La Marque, Tx 77568

INVOICE 2281

DATE 01/22/2018 TERMS Net 30

DUE DATE 02/21/2018

PURCHASE ORDER 2293

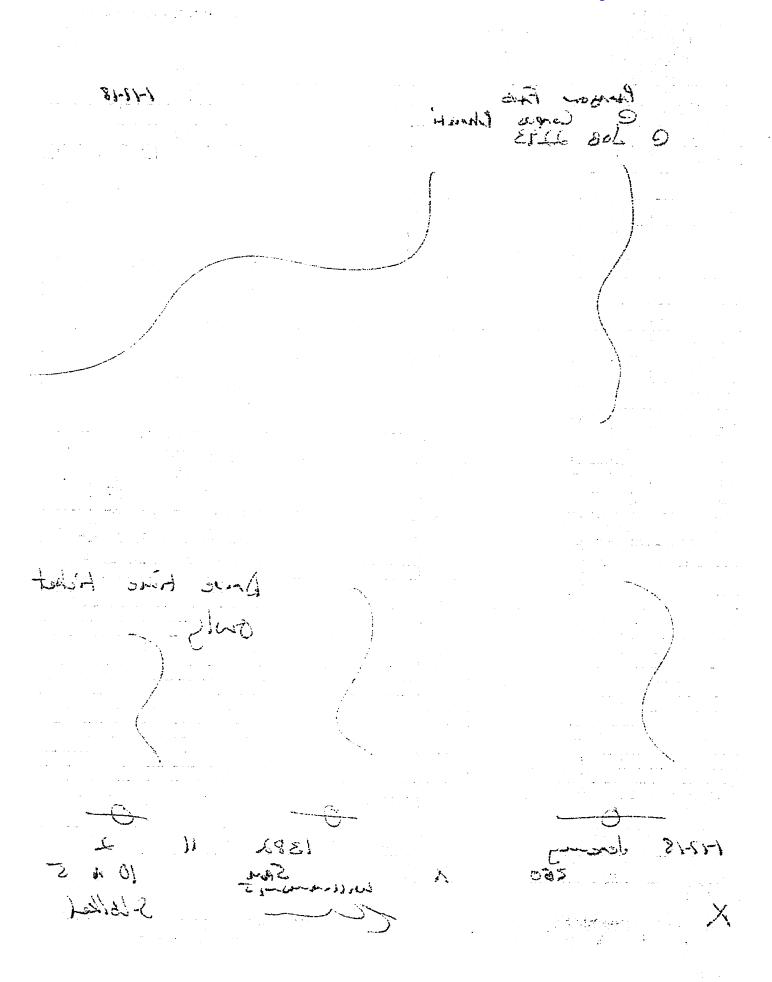
ACTIVITY	QTY	RATE	AMOUNT
Radiographic Testing:2 Person Radiography Crew ST @Corpus Christi, RT Report #1382, 1/17/2018	5	92.00	460.00
Miscellaneous Charges:Mileage	260	1.00	260.00
Miscellaneous Charges:NDE Truck	1	65.00	65.00
Radiographic Testing:2 Person Radiography Crew ST @Corpus Christi, RT Report #1381, 1/18/2018	8	92.00	736.00
Radiographic Testing:2 Person Radiography Crew OT	3	138.00	414.00
Radiographic Testing:Film:4.5x17 Inch Film	54	9.00	486.00
Miscellaneous Charges:Equipment Charge	1	50.00	50.00
Miscellaneous Charges:NDE Truck	1	65.00	65.00
Radiographic Testing:2 Person Radiography Crew ST @Corpus Christi, RT Report #1387, 1/19/2018	8	92.00	736.00
Radiographic Testing:2 Person Radiography Crew OT	3	138.00	414.00
Radiographic Testing:Film:4.5x17 Inch Film	38	9.00	342.00
Miscellaneous Charges:Equipment Charge	1	50.00	50.00
Miscellaneous Charges:NDE Truck	1	65.00	65.00
Radiographic Testing:2 Person Radiography Crew OT @Corpus Christi, RT Report #1388, 1/20/2018	5	138.00	690.00
Miscellaneous Charges:Mileage	260	1.00	260.00
Miscellaneous Charges:Discount Discount applied to reduce to agreed upon price	1	1,093.00	-1,093.00

TOTAL DUE \$4,000.00

2602 Texas Avenue Texas City, TX 77590 Office (409) 948-1012 Fax (409) 948-0839 www.blazerinspection.c

RADIOGRAPHIC EXAMINATION REPORT Page of

INSPEC	ION INC	IJ		www.t	olazerinspecti	on.com	l.			SC#	
CUSTOMER/CONTAC	TPA	~410	~	FAV	5					DATE /-/	17-18
LOCATION/ADDRESS	_		Car	eus.	Cha	è Li					
UNIT/SYSTEM		JOB	2)	93						P.O.	
MATERIAL	,	_	В	С	D	E				Source	Optional Source
THICKNESS	1	\	В	С	D	E	Film				
DIAMETER	A		В	С	D	E	Saurae	Source	$\hat{\mathbb{A}}$	Film	
REINF. THICKNESS	1		В	С	D	E			FILM		Film
SFD	\ \ \		В	С	D	E	SWE/SWV	SWE/SWY	SW	E/SWV 🔲	DWE/SWV
EXPOSURE TIME	1		В	С	D	E	Optional Source	Source	° Å Å	Soura #	
IQI SIZE/MATERIAL	,		В	С	D	E	# Location #				
IQI LOCATION (S/F)		1	В	С	D	E					
SHIM THK & MAT'L			В	С	D	E	DWE/SWV	Film DWE/DWV	DW.	FILM E/DWV	
# OF EXPOSURES	,		В	С	D	E	• • • • • • • • • • • • • • • • • • • •			-	
MARKERS: NBR OR SPACING	,	1	В	С	D	E				_	
SOURCE r Co X-Ray	Ci NDE PR	kV OCEDUF	Ma RE		PTANCE ST	SCRE	REAR	FILM LOA		FILM PROCE TIME TEMP AUTO	SSS:
STAGE OF MANUFAC	CTURE			INTERM	EDIATE		FINAL	REPAIR	BEFORE PW	нт [AFTER PWHT
C - CRACK SL - SLAG T - TUNGSTEN	P - POR		OROSITY AS POCK EAD		IF - INSUFF	ICIENT	T PENETRATION T FUSION PENETRATION	IU - INTEI	ERNAL UNDERCUT RNAL UNDERCUT RNAL CONCAVITY	HL - IP	RFACE DUE TO HIGH/LOW RN THROUGH
WELD		VIEW	DEN PEN	SITY WIELD	ACC	REJ	J LIST INDIC	CATIONS	WELDER	R ID - OTHER IE	- REMARKS
					\vdash	╁╫			Drive.	time	e ticket
									0,		
	-				\vdash	╁╫			anti		
						╁╁			0,500		
	$\overline{}$				\vdash	╀┼	 				
	+				⊢ H	╁┼	 	\			
	1					╁				1	
								/			
						10					
					\vdash	ᆛ붜					
П			014145113		ш	\perp	1				
# OF FILM AND SIZE			OMMENT	5:			FILM BRAND/TYPE	-		TOTAL # OF	WENDS
# OF FILM AND SIZE	-	-C						0		_	0
Date 1-17-18	Custom	er Contac	it ~~~			Per D Yes [Report #	ال Unit #	11	No. on Job
Travel if Applicable Hours:		Miles Tot	al: 36	0	Airlines Vehicle		Hours: Worked	to 5	and	to	O AM S
V	0	() 1	0.				W.(1 carrie	-12	6	14/401
Signature of Custome	r s/Repre	sentative	certifies	me and r	naterial corre	ct c			and Level of Examine		Assistant
Customer signature in the current rates on fil		atisfactor	y perform	ance and	agreement w	ith time	e, material, equipment a	and costs associa	ted with this project.	An invoice will b	e submitted reflecting



Case 17-36605 Document 88-2 Filed in TXSB on 05/16/18 Page 6 of 133 #-1381

D A Z E P

2602 Texas Avenue Texas City, TX 77590 Office (409) 948-1012 Fax (409) 948-0839 www.blazerinspection.com

RADIOGRAPHIC EXAMINATION REPORT Page of

Arth	ION INC			www.bla	azerinspection	n.com	1					SC#		
CUSTOMER/CONTAC	T P	4/450		FARS								DATE /-	18-18	
LOCATION/ADDRESS			lasel		_	200	, CI	nrist	. (,		0
UNIT/SYSTEM	OB		229				3		-			P.O.		
	4/5				D	E		4			2450%	Source	Ωption	nal
THICKNESS	375	375			D	Е	_	Film		E.S.	*		Souri	tion #
DIAMETER	24/13	A 121/24	C		D	E		Saurge	Sour			FILE		
REINF. THICKNESS	N/4	1 N/4	C		D	E				FILM	The state of the s			Film
SFD	12.5/95	Contect			D	E	SWE/SW	v 🗆	SWE/SWY	v П	SWE,	/swv	DWE/	/swv 🔲
EXPOSURE TIME	Sm.m	V4nous	C		D	E	Option Source	e	* Source	te 🕺	★ 50	ource #		
IQI SIZE/MATERIAL	B	13 5			D	E	A Locati	on #						
IQI LOCATION (S/F)	F	F	C		D	E (AND DESCRIPTION OF THE PERSON	()			
SHIM THK & MAT'L	N/A	a wh			D	E	DWE/SW	Film	FILM DWE/DW	3	DWE	FILM /DWV		
# OF EXPOSURES	1	4 6/4E			D	E	2 1 2 7 2 1		22,2					
MARKERS: NBR OR SPACING	1-2	1-2 E			D	E						,		
SOURCE Ir	70	7 D	Ма	S7.7 (200 - 200 -	AL SPOT	. 1	- 1	EAR . O			Double	TIME 4	ESS:	
Co	-	OCEDURE			TANCE STA	100			E CONDITION	/ .		TEMP 70	400	
X-Ray		10-RT-R		A				ک	woth /	coade	d	☐ AUTO	MA MA	ANUAL
STAGE OF MANUFAC	TURE		II	NTERME	DIATE	ļ	FINAL		REPAIR	BE	FORE PWH	Т	AFTER I	PWHT
	P - POR	USTER PO OSITY/GA OLLOW BE	S POCKE	Т	IF - INSUFF	CIEN	T PENETRATI T FUSION PENETRATIO		IU - INTE	RNAL UN	NDERCUT DERCUT NCAVITY	HL - IP	URFACE DUE TO HII JRN THROU	
WELD	110	VIEW	DENS		ACC	RE		IST INDIC				ID - OTHER I	D - REMARI	KS
-3	\neg	1-2	FEIN	WILLD			j	OT INDIC	ATTORIO	-X-				
2		2-3			7					1				
	-	3-4								\perp				
		45			4	 				+ \				
		5-6			- 4	┝	10.1	/	w (AP	+				
		1-2			7	 -	Luns	for o	w CAP	+				
W-5		2-3			F	 -				1				
	_	3-4	_	-	F	 				 				
		4-5			Ħ	 								
	_	5-6		-	7	┢				+				
		1-1			7	一								
1 -1		1-2	_		H	卜	 							
w-6		2-3			H	┝	SIAG	> .23	50 WIC					
		3.4		-	- H	 	7000	,	1010					
	050	_ ` _								1 '				
ADDITIONAL PA	IGES	CC	MMENTS	:			Ta					T-0-11 # 05		
# OF FILM AND SIZE	17	/ 5	-4				FILM BRA	^	10-3			TOTAL # OF		
Date 17-18	1	of Contact	. 1			Per I		П	Report #		Unit #	11	No. on J	
Travel if Applicable	de	sein	\rightarrow		Airlines	<u> </u>	Hours:		1001			. (Total Hrs
Hours:		Miles Total	40		Vehicle	\mathbf{A}	Worked		to 6	AM	and	to	5 PM	1 1
X Jeren	×	Da	Du					10					5-0	be Hel
Signature of Customer									ame, Signature, a			n invoice will	Assis	#10#20.C.#0
Lustomer signature in	dicates s	atteractor/	nemorman	ice and a	greement w	in time	- marenai eni	moment a	DO COSIS ASSOCIA	neo with t	us project. A	ar invoice will	ae suominec	a renectific

the current rates on file.



2602 Texas Avenue Texas City TX 77590 Office (409) 948-1012 Fax (409) 948-0839 www.blazerinspection.com

READER SHEET

SC# DATE -18-18 CUSTOMER/CONTACT PARAGON LAB LOCATION/ADDRESS Compus P.O. 2293 UNIT/SYSTEM OB C - CRACK CP - CLUSTER POROSITY IP - INSUFFICIENT PENETRATION EU - EXTERNAL UNDERCUT SU - SURFACE P - POROSITY/GAS POCKET IF - INSUFFICIENT FUSION IU - INTERNAL UNDERCUT HL - IP DUE TO HIGH/LOW SL - SLAG BT - BURN THROUGH T - TUNGSTEN HB - HOLLOW BEAD **EP - EXCESSIVE PENETRATION** IC - INTERNAL CONCAVITY DENSITY PEN WIELD WELDER ID - OTHER ID - REMARKS WELD VIEW ACC REI LIST INDICATIONS 4-5 1 W-6 5-6 5/8 SIAG 6-1 wic W-7 1-2 1 2-3 7 3-4 4-5 5-6 7 X cluster 1 1-2 2-3 1 3-4 1 -4-5 1-2 1 2-3 7 3-4 7 56 -/ 6-1 1 J70 1 7-3 3-4 1 Por wic 45 1 5-6 6-1 / 1-2 N-19 1 2-3 1 3-4 1 7 W-20 1-2 2-3 1 3-4 1 1-2 4-21 1 2-3 7 3-4 7 4-1 Williams, J Signature of Customer's Representative certifies time and material correct Name, Signature, and Level of Examiner

Customer signature indicates satisfactory performance and agreement with time, materials, equipment and cost associated with this project. An invoice will be submitted reflecting the current rates on file.

Case 17-36605 Document 88-2 Filed in TXSB on 05/16/18 Page 8 of 133

1381 # - 1135

3



2602 Texas Avenue Texas City TX 77590 Office (409) 948-1012 Fax (409) 948-0839 www.blazerinspection.com

READER SHEET

3

INSPEC	TION INC.								SC#	
CUSTOMER/CO	NTACT PAGE	Agor	, f	FAB					DATE /-/8-18	
LOCATION/ADD	1,40			Ch	nist				2) 0 7	
UNIT/SYSTEM		293	rpus		(3)	•			P.O.	
C - CRACK SL - SLAG T - TUNGSTEN	CP - CLUSTE P - POROSIT HB - HOLLOV	R PORO Y/GAS P	OCKET	IF - INSU	FFICIEN	T FUSION IU	J - EXTERNAL UN - INTERNAL UN - INTERNAL CO	DERCUT	SU - SURFACE HL - IP DUE TO HIGH/LC BT - BURN THROUGH)W
WELD	VIEW		WIELD	ACC	REJ	LIST INDICATIONS		WELDER I	D - OTHER ID - REMARKS	
w23	1-2			3			-K'-			
	2-3						(
	3-1)			
w-27	12									
	2-3				ᆜ					
	3-1				ᆜ					
W-28	1-2						Ē			
	2-3			7	∺					
	4-5				∺					
	5-1				+		1			
W-29	1-2				十	Por 1123				
1	2-3			Ż	Ħ	Cluster WIC	1			
	3-4						1			
	4-5						(
2011	5-1									
w-38	1-7									
	2-3									
	3-1				_Ц_					
W-39	1-2				므					
	2-3				무					
	3-1				井					
				H	+					
				H	H					
				H	十					
					Ħ					
-										
					므					
				닏	ᆜ					
				井	-					
				片	井					
				井	井					
				片	井					
X dr.			4/				suice.		S-Voell	je (
Signature of Cust	tomers Represe	ntative ce	ertities tim	e and mat	enai corre	ect Name, S	Signature, and Le	evel of Examiner	Assistant	

Customer signature indicates satisfactory performance and agreement with time, materials, equipment and cost associated with this project. An invoice will be submitted reflecting the current rates on file.

Case 17-36605 Document 88-2 Filed in TXSB on 05/16/18 Page 9 of 133 #-1387

DAZEP PARTIE 2602 Texas Avenue Texas City, TX 77590 Office (409) 948-1012 Fax (409) 948-0839

RADIOGRAPHIC EXAMINATION REPORT Page of

A PAR	LON, INC			www.bl	azerinspe	ction.	com							SC#		
CUSTOMER/CONTAC	T PA	Mason	2 F	413										DATE /-	19-18	
LOCATION/ADDRESS		> 120v	Corl		2 lni	· Éc										
UNIT/SYSTEM	JOB	229		00	2000	3 (-								P.O.		
MATERIAL	95A	C/3B		С	D	Е			P	H				Source	Option	
THICKNESS	.375	.375	3	С	D	Е			Film	Man		8	#		Saurce	n 共
DIAMETER	W/8A	24/18		С	D	E			Saurze	(X	Source			File		
REINF. THICKNESS	W)AA	WAB	3	С	D	Е			_8_ =		* Val lag	IIn				Film
SFD	9.5/1.5	(critical		С	D	E	\vdash	SWE/SW	v _		SWE/SWV		SWE/	'swv	DWE/S	wv 🔲
EXPOSURE TIME	YMINA	VANO		С	D	E		□ption Source ☆ Locat	e	3	Source	Ĭ	Å so	urce *		
IQI SIZE/MATERIAL	BA	B	3	С	D	E		F		1		/8				
IQI LOCATION (S/F)	FA	F		С	D	E					No	MUNICERRORS				
SHIM THK & MAT'L	MA A	NAB	_	С	D	E		DWE/SW	Film V	/	FILM DWE/DWV		DWE/	Film /DWV		
# OF EXPOSURES	1 A) B		С	D	E										
MARKERS: NBR OR SPACING	1-JA	1-7 B	3	С	D	E										
SOURCE	70	70	Ма		X (CREE	XG CN R	ONT .	200	Single		Double	FILM PRO	CESS:	
□ co	NDE PRO	OCEDURE		ACCE	TANCE	STĄŅI	DARD		SURFAC	E CONE	_	í	1	TEMP	240	
X-Ray		300-1			API	4		1164	Cox	-	180	1	И	AUTO		
C - CRACK		ISTER PO	-	INTERME		FFIOI	_/	ENETRATI		REPA			NDERCUT		SURFACE	WHT
SL - SLAG T - TUNGSTEN	P - PORC	STER PO DSITY/GA LOW BE	S POCK AD	ET	IF - INSU	FFICI	ENT F			11	U - INTER C - INTER	NAL UN	DERCUT	HL - I	P DUE TO HIG BURN THROUG	
WELD		VIEW	PEN	WIELD	ACC		REJ	L	IST INDI	CATIONS	3		WELDER	ID - OTHER	ID - REMARK	3
W-2	1	ープ			-	-	Д.	inclicat	Hen	on	653 H	han /	410	1		
		3-4					H	iveld	not	dearla	er tha	NO	Bruefee	(
		1-5				-	H									
	_	5-6														
	6	r-l			•											
w-4	1	-2			D	-	\sqcup	40E								
	2	-3				-	Η.									
		5-9			-	-	H -									
	- 1	1-5				-	×	4.0.	Ē							
	1	-10				-	X	-	F							
W-ll	- (6	1-2				7	ñ	2101	(E				
	- 1	2_3				7	Ħ					5				
	3	3-4			-							(
ADDITIONAL PA	AGES	СО	MMENT	S:												
# OF FILM AND SIZE	·2X	17						FILM BRA	ND/TYPE	LA	4/D-	3		TOTAL # C	F WELDS	
Date H7-18	Custome					200	er Die		П	Report	138		Unit #		No. on Jo	0
Travel if Applicable		,	DIA		Airlines			Hours:			1			2000	_	Total Hrs
Hours:	~ D M	liles Total:	30		Vehicle	2	1	Worked		to	6	AM	and	to	O PM	, (
Jenny	X	Llu.	1				_	_	10	_					5.001	kel
Signature of Customer Customer signature in							ime, r	naterial, equ					of Examiner his project. A	n invoice wil	Assista I be submitted r	

the current rates on file.

Case 17-36605 Document 88-2 Filed in TXSB on 05/16/18 Page 10 of 133

1387



2602 Texas Avenue Texas City TX 77590 Office (409) 948-1012 Fax (409) 948-0839 www.blazerinspection.com

READER SHEET

							SC#
CUSTOMER/CONTACT	PANAS	on F	AB				DATE 1-19-18
LOCATION/ADDRESS		npus		sti			
UNIT/SYSTEM LOG	2293	,					P.O.
C - CRACK CP - CI SL - SLAG P - POI	LUSTER PO ROSITY/GAS OLLOW BEA	S POCKET AD	IF - INSU	FFICIEN	T FUSION IU - INTERI	RNAL UNDERCUT NAL UNDERCUT NAL CONCAVITY	SU - SURFACE HL - IP DUE TO HIGH/LOW BT - BURN THROUGH
WELD V		N WIELD	ACC	REJ	LIST INDICATIONS	WELDER	ID - OTHER ID - REMARKS
	5	111111111111111111111111111111111111111	7				
	-6						
	l						
	-2		1				
2	2-3		1				
3	.4						
4-	-5		₫		Por in code		
S	-4				177		
	2-1		₫				
	_2						
	-3		4		1		
	34				for in-code		
	15		<u>I</u>	ᆜ			
	5-1		<u> </u>	- 블			
w-44 1	1-2			井			
	2-3			井			
	3-4		4	井			
	1-5			6	2011		
	5-6		7	(96)	-SlAG- 1N-code		
	6-1 -2				Lonon Indication (6.0	E	
	.3		H	<u> </u>	Whom Littlewich (L'O	<i>(()</i>	
	3-1	-		+			
	2-1		H	+	1		
			H	+			
			H	Ħ			
12 12 2							
11				므			
			닏				
	IN		$\Box \Box /$		11		
Signature of Qustomer's R	X	Mly		odol		, and Level of Examine	- Stolke

Customer signature indicates satisfactory performance and agreement with time, materials, equipment and cost associated with this project. An invoice will be submitted reflecting the current rates on file.

Case 17-36605 Document 88-2 Filed in TXSB on 05/16/18 Page 11 of 133

2602 Texas Avenue Texas City, TX 77590 Office (409) 948-1012

RADIOGRAPHIC EXAMINATION REPORT Page

of

THE INSPECT)		vw.blazerins		com				SC#
CUSTOMER/CONTAC	T PA	ASON	FAC	3						DATE 1-20-18
LOCATION/ADDRESS	77	Comps	- 1	wis to						
UNIT/SYSTEM		Col								P.O.
MATERIAL	1	В	С	D	E					Source Optional
THICKNESS	Å	В	С	D	E		Film	<i>F</i> = -		# Location #
DIAMETER	A	В	С	D	E		Source	Source		FRE
REINF. THICKNESS	^								FILM	Film
SFD	А	-8-	С	D			SWE/SWV	SWE/SWV	SWE/	SWV DWE/SWV
EXPOSURE TIME	А	В	С	D	E		Optional Source	Sour	₹	urce -
IQI SIZE/MATERIAL	A	В	С	D	E					
IQI LOCATION (S/F)	A		С	D	E					
SHIM THK & MAT'L	A		С	D	E	_	DWE/SWV	FILM DWE/DWV	DWE/	FILM
# OF EXPOSURES	A		С	D					,	
MARKERS: NBR OR SPACING	A	В	С	D	E					
SOURCE Ir Co X-Ray	Ci NDE PRO	kV OCEDURE	Ma	FOCAL SPO		DARD	REAR	FILM LOA Sing	MRS10076	FILM PROCESS: TIME TEMP AUTO MANUAL
STAGE OF MANUFAC	CTURE		☐ INTE	RMEDIATE			FINAL	REPAIR	BEFORE PWH	T AFTER PWHT
C - CRACK SL - SLAG T - TUNGSTEN	P - PORC	STER POR SITY/GAS LOW BEA	POCKET D	IF - INS	UFFIC	ENT F	PENETRATION FUSION NETRATION	IU - INTER	ERNAL UNDERCUT RNAL UNDERCUT RNAL CONCAVITY	SU - SURFACE HL - IP DUE TO HIGH/LOW BT - BURN THROUGH
WELD	Λ.	VIEW	DENSITY PEN WIE	LD AC	С	REJ	LIST INDIC	ATIONS	WELDER	D - OTHER ID - REMARKS
	/	_		_	+	H	,		1/rive	Time
									10	1
					$\dashv \perp$	무			home	only
	-	_		-	\dashv	∺	 			
					\downarrow	뷰			(
	-				+1	H				
					┽┼	뷰		1		
	_				╡┼	H		$\overline{}$		
ADDITIONAL PA	AGES	CON	MMENTS:							
# OF FILM AND SIZE							FILM BRAND/TYPE			TOTAL # OF WELDS
Date	Custome	r Contact				er Die		Report #	Unit #	No. on Job
Travel if Applicable				Airlines	_]	Hours:			Total Hrs
Hours:	N	liles Total:	260) Vehicle	=	<u> </u>	Worked	to Ca	AM and	to 11 Am 5
1 Open	m 6	In In	m/				10			S. lolke
Signature of Customer Customer signature in						time, i			nd Level of Examiner led with this project. A	Assistant n invoice will be submitted reflecting

the current rates on file.

Case 17-36605 Document 88-2 Filed in TXSB on 05/16/18 Page 12 of 133

Blazer Inspection, Inc. 2602 Texas Ave. Texas City, TX 77590 US 409-948-1012 jspruiell@blazerinspection.com www.blazerinspection.com



BILL TO Paragon Fab, Inc. 500 Main La Marque, Tx 77568 **INVOICE 2315**

DATE 01/24/2018 TERMS Net 30

DUE DATE 02/23/2018

PURCHASE ORDER

22	93	-4	65	8

ACTIVITY	QTY	RATE	AMOUNT
Radiographic Testing:2 Person Radiography Crew ST @LaMarque, RT Report #10-1232018, 1/23/2018	8	92.00	736.00
Radiographic Testing:2 Person Radiography Crew OT	2	138.00	276.00
Radiographic Testing:Film:4.5x17 Inch Film	43	9.00	387.00
Miscellaneous Charges:Equipment Charge	1	50.00	50.00
Miscellaneous Charges:NDE Truck	1	65.00	65.00

TOTAL DUE \$1,514.00

e 17-36605 Document 88-2 Filed in TXSB on 05/16/18 Page 13 of 133 1232018
Texas City, 777590 RADIOGRAPHIC EXAMINATION REPORT

ase 17-30005	2662/Texas Avenue 0-2
AZA	Texas City, TX 77590
b william 12	Office (409) 948-1012
	Fax (409) 948-0839
SEPECTION, INC.	www.blazerinspection.com

/ of 2

inare	TION, INC													SC#		
CUSTOMER/CONTA	CT /=	gra	900	,										DATE /	123/1	g P
LOCATION/ADDRES		,		101	. T.x	,				Th	#138	7+	#139			
UNIT/SYSTEM '	TIN		229				11	PORV	al i	Mac	#138 ellan	P	hipo	P.O. 27	193-	4658
MATERIAL	CSA	E		7	D	E		v. v	14		211-47		7	Source	Opt	lonal
THICKNESS	,375	Е	3 0		D	E	١,		Film		-		*	Å	Sou	urce ation 女
DIAMETER	24 ^	E	3 C	Tr	D	Е		X)	\Squirze	1	Source			FILE		
REINF. THICKNESS	.125	E	3 C		D	Ε	W					FILM				Film
SFD	11/2	Е	B C		D	Е		SWE/S	wv		SWE/SWV		SWE/	/SWV	DWI	E/SWV
EXPOSURE TIME	1:50	E			D	Е		Optio Sour	rce		Source	Ť	<u></u>	urce *		
IQI SIZE/MATERIAL	BA	Е			D	Е	A	A Loca	tion 🌣	1						
IQI LOCATION (S/F)	F	Е			D	Е										
SHIM THK & MAT'L	.375⁴	В			D	E	*	DWE/S	Film WV	1	FILM DWE/DWV		DWE/	FILM		
# OF EXPOSURES	2^	В			D	E					f)					
MARKERS: NBR OR SPACING	12.5	В			D	E										
SOURCE	50	kV	Ма		AL SPOT	1	REEN		RONT REAR , &	210	FILM LOAD		Double	FILM PROC	ESS:	
Co X-Ray	NDE PRO	CEDURE		ACCEP	TANCE STA	NDA	ARD	,,,	SURFAC	E CON				TEMP 7	5	ANUAL
STAGE OF MANUFAC		50		TERME				FINAL	<u> </u>	REP	1465		FORE PWHT	AUTO	AFTER	
C - CRACK	CP - CLU		ROSITY		IP - INSUFF		NT PE	ENETRAT	ION	•	EU - EXTE	RNAL U	NDERCUT	SU - S	URFACE	
SL - SLAG T - TUNGSTEN	P - PORC				IF - INSUFF EP - EXCES				N		IU - INTER IC - INTER				DUE TO H	
WELD		VIEW		VIĘLD	ACC	F	REJ		LIST INDIC	CATION	s			ID - OTHER	ID - REMAR	KS
N#60		1.5	2+0	4	1	4	\dashv					"X'	1			
-		2-3	1	1	ان	+	\dashv					+				
		1-5-	+	+	7	H						+	•			K
		-6		T	1	Ħ						-				
	711.	0-1			W	T										
W#73		-2										\neg		C. C. C. allo		
1	2	-3														
	3	-4			١								1	JE D		
	4	-5											4	1	200	
	5	5-60			4											
	6	2-1		1	4									211		
W#74	1	-2			4											
		2-3	1/													
- 1	3	-4	V	V	2							1	- No. 1989			
ADDITIONAL PA	AGES	CO	MMENTS:	/-	sage.	#	2						ANIM			
# OF FILM AND SIZE	_	4.5	"x /		· '			FILM BRA	ND/TYPE	. ~	2) 3			TOTAL# OF	WELDS	
Date 1/23/18	Customer	Contact		4		Per	r Dien	n		Repo	nt#) - 123.	2018	Unit #	0	No. on	Job
Travel if Applicable	. ^		1	_	Airlines			Hours:							7/	Total Hrs
Hours: N/19	A)M	liles Total:	NI	7	/ehicle			Worked		to	90	AM)	and	to	/ (P	10
Jan &	XX	Mul	ve v			_					Wier -		,	100	y D	line
Signature of Customer Customer signature inc current rates on file.						time,	, mate	erial, equip					of Examiner of roject. An invo	ice will be su		istant ecting the

current rates on file.

Acknowledgement:

The test results reported herein by the inspection technician are valid at the time of inspection only. Blazer Inspection, Inc. is not responsible for any changes in the state of the equipment after the inspection is completed including but not limited to: final installation practices, mechanical controls, operations or utilization parameters, or any other change in the state of the equipment from its state at the time of the inspection; and, makes no assertion, finding, representation, guarantee or warranty concerning the possible effects upon the inspected equipment from such changes, or the state of such inspected equipment at any time after the inspection is completed.

Case 17-36605 Document 88-2 Filed in TXSB on 05/16/18 Page 15 of 133



2602 Texas Avenue Texas City TX 77590 Office (409) 948-1012 Fax (409) 948-0839 www.blazerinspection.com 10-1232018 READER SHEET

Page 2 of 2

SC# CUSTOMER/CONTACT DATE LOCATION/ADDRESS UNIT/SYSTEM P.O. CP - CLUSTER POROSITY EU - EXTERNAL UNDERCUT C - CRACK IP - INSUFFICIENT PENETRATION SU - SURFACE SL - SLAG P - POROSITY/GAS POCKET IF - INSUFFICIENT FUSION IU - INTERNAL UNDERCUT HL - IP DUE TO HIGH/LOW T - TUNGSTEN HB - HOLLOW BEAD **EP - EXCESSIVE PENETRATION** IC - INTERNAL CONCAVITY BT - BURN THROUGH DENSITY WELD VIEW WELDER ID - OTHER ID - REMARKS PEN WIELD ACC REJ LIST INDICATIONS W# 74 cont. V 4-5 H 6-1 W#6 3-4 5-6 1-2 2-3 6-1 W#43 4 2-3 3-4 W#72 nx" 1-2 2-3 3-4

Customer signature indicates satisfactory performance and agreement with time, materials, equipment and cost associated with this project. An invoice will be submitted reflecting the current rates on file.

Signature of Customer's Representative certifies time and material correct

Acknowledgement:

The test results reported herein by the inspection technician are valid at the time of inspection only. Blazer Inspection, Inc. is not responsible for any changes in the state of the equipment after the inspection is completed including but not limited to: final installation practices, mechanical controls, operations or utilization parameters, or any other change in the state of the equipment from its state at the time of the inspection; and, makes no assertion, finding, representation, guarantee or warranty concerning the possible effects upon the inspected equipment from such changes, or the state of such inspected equipment at any time after the inspection is completed.

Case 17-36605 Document 88-2 Filed in TXSB on 05/16/18 Page 17 of 133

Blazer Inspection, Inc. 2602 Texas Ave. Texas City, TX 77590 US 409-948-1012 jspruiell@blazerinspection.com www.blazerinspection.com



BILL TO Paragon Fab, Inc. 500 Main La Marque, Tx 77568 **INVOICE 2316**

DATE 01/25/2018 TERMS Net 30

DUE DATE 02/24/2018

PURCHASE ORDER 2293-4658

ACTIVITY	QTY	RATE	AMOUNT
Radiographic Testing: 2 Person Radiography Crew ST @Paragon, RT Report #10-1242018-1 & 10-1242018-2, 1/24/2018	8	92.00	736.00
Radiographic Testing:2 Person Radiography Crew OT	4	138.00	552.00
Radiographic Testing:Film:4.5x17 Inch Film	47	9.00	423.00
Miscellaneous Charges:Equipment Charge	1	50.00	50.00
Miscellaneous Charges:NDE Truck	1	65.00	65.00

TOTAL DUE \$1,826.00

Case 17-36605 Document 88-2 Filed in TXSB on 05/16/18 Page 18 de 1320/8 - / Texas City, TX 77590

Office (409) 948-1012 Fax (409) 948-0839 www.blazerinspection.com

Page	1	of	2
		_	

	•													SC#	-10-10-10-10-10-10-10-10-10-10-10-10-10-	
CUSTOMER/CONTAC	т /-	Parag	pp					11.70						DATE /	124/1	8
LOCATION/ADDRESS	10 81 45 14	a Ma.	rance	7-				Tai	K#	13	38 + 7	#1	39	/	- //	
UNIT/SYSTEM 5	In +	+ 22	93		_	C	00	19/1	Mag	e//	an P	pin	9	P.O. 2	293-	4658
MATERIAL	CSA	CSB	CS	CS	D	Е			14		,	1	1	Source	Ор	tional
THICKNESS	.375 ^A	.375	.375		D	Е			Film		_		*	Å	∜ Lo	ource cation &
DIAMETER	30 ^A	18 ^B	10.7		D	Е	6		Squrze		Source			Film		
REINF. THICKNESS	.125A	.125	,125	,/25	D	Е	W					ILM				Film
SFD	141/2	81/2B	10.7		D	Е		SWE/SW	v \square		SWE/SWV] SWE/	SWV	DV	WE/SWV
EXPOSURE TIME	21/2	115B	2	11/3	5 D	Е		Option Source	e		* Source	Ĭ	★ So	urce 🔻		
IQI SIZE/MATERIAL	BA	\mathcal{B}^{B}	B	B	D	Е	P	# Locati	ion A,	1						
IQI LOCATION (S/F)	FA	FB	F	F	D	Е				1		/ www.		h/1		
SHIM THK & MAT'L	.375	.375 B	,375	.37		Е	*	DWE/SW	Film V	/ `	FILM DWE/DWV		DWE/	FILM		
# OF EXPOSURES	a ^	а ^в	3	3	D	Е							,			
MARKERS: NBR OR SPACING	13.4	11.3 B	11.2°	9	D	Ε										
SOURCE	Ci	kV	Ма	1000000	AL SPOT	1	REEN	3370 3333	ONT		FILM LOAD			FILM PROC		
Y Ir	50				x.//	_	010		EAR . O		Single	•	Double	TIME C		
	NDE PRO	CEDURE		Contract Con	ANCE STA		ARD		SURFACE					TEMP 7		_
X-Ray	121	-300)	AP.	I 111	24	<i>y</i>			m	ooth	>		AUTO		MANUAL
STAGE OF MANUFAC	TURE		l lv	ITERMED	IATE		4	FINAL		REF	PAIR	В	EFORE PWHT		AFTE	R PWHT
SL - SLAG	P - PORO	STER POR SITY/GAS LOW BEAL	POCKET	IF	- INSUFFI - INSUFFI P - EXCES	CIE	NT FL	JSION			EU - EXTEI IU - INTERI IC - INTERI	NAL UI		HL - I	SURFACE P DUE TO I BURN THRO	
WELD			DENSI		ACC	Г	REJ		IST INDIC	٨ΤΙΟΙ		1712 0			ID - REMA	
W#24		-2	210		100	T	"		OT INDIC	ATIO	110	"	Xi	D-OTTIER	ID - INLINIA	THE STATE OF THE S
1		2-3	7 .12	,		1	7						^			
		3-4	1	1	1	1	╡┤					-				
		7-5	1	/ 		+	╣			-						
			+	1		+	\dashv					-				
	3	-6	+	_		+	+					-				The state of the s
	6	0-7			2	1	41									
/		7-1			3							-				
W#78		-2			5							11)	(11			
1		3			-							1				
	3	1-4			1							1				
	4	1-5			2							1				
-	5	-1			1	П	\Box					1				
W# 605		-2			4	T	7					"×	7 31			
1		2-3	\vdash		T.	1	+									
-	_			-	4	1+	╡┤			-		+				
V		5-4	V	r		L						1/				
ADDITIONAL PAG	GES	CON	MMENTS:	#	5/											
OF FILM AND SIZE	4.5"	x/7	"					FILM BRAN	AC+	· -	D3	3		TOTAL#0		
Date 1/24/18	Customer	Contact	מנו		-	Per	Diem	n No		Rep	ort# 0-12420	5/9	Unit #		No. or	Job 2
Travel if Applicable			1	1.0	irlines			Hours:							, ,	Total Hrs
Hours: N/A	M	iles Total:	N	/A V	ehicle	4		Worked		to	60	AM)	and	to	60	M 12
Conen &		4/							M	611	y 7-	Us:	ne II	- //	nou	Deline
Signature of Customer's	Represen	tative certi	fies time a	and mater	al correct	_			Na	me, S	Signature, and	d Level	of Examiner	/	As	sistant

Customer signature indicates satisfactory performance and agreement with time, material, equipment and costs associated with this project. An invoice will be submitted reflecting the current rates on file.

Acknowledgement:

The test results reported herein by the inspection technician are valid at the time of inspection only. Blazer Inspection, Inc. is not responsible for any changes in the state of the equipment after the inspection is completed including but not limited to: final installation practices, mechanical controls, operations or utilization parameters, or any other change in the state of the equipment from its state at the time of the inspection; and, makes no assertion, finding, representation, guarantee or warranty concerning the possible effects upon the inspected equipment from such changes, or the state of such inspected equipment at any time after the inspection is completed.

Case 17-36605 Document 88-2 Filed in TXSB on 05/16/18 Page 20 of 133



2602 Texas Avenue Texas City TX 77590 Office (409) 948-1012 Fax (409) 948-0839 www.blazerinspection.com 10-1242018-2

READER SHEET

Page ∂ of ∂

SC# CUSTOMER/CONTACT DATE TK#138-#139 LOCATION/ADDRESS UNIT/SYSTEM C - CRACK **CP - CLUSTER POROSITY** IP - INSUFFICIENT PENETRATION SU - SURFACE EU - EXTERNAL UNDERCUT SL - SLAG P - POROSITY/GAS POCKET IF - INSUFFICIENT FUSION IU - INTERNAL UNDERCUT HL - IP DUE TO HIGH/LOW T - TUNGSTEN HB - HOLLOW BEAD **EP - EXCESSIVE PENETRATION** IC - INTERNAL CONCAVITY BT - BURN THROUGH DENSITY WELD VIEW PEN WIELD ACC LIST INDICATIONS WELDER ID - OTHER ID - REMARKS W#65 cont. 4.5 5-1 1 W#50 "X" W 2-3 3-4 W#40 11×11 V Po smaller than 3-1 w#4 W -3 3-1 W W#42 2-3 2-3 2-3 4 W#96 Claster Posmaller than'le! V 11# 94 2-3 P. - Smaller than 101 #1 "F" 2-3 Signature of Customer's Representative certifies time and material correct Name, Signature, and Level of Examiner

Customer signature indicates satisfactory performance and agreement with time, materials, equipment and cost associated with this project. An invoice will be submitted reflecting the current rates on file.

Acknowledgement:

The test results reported herein by the inspection technician are valid at the time of inspection only. Blazer Inspection, Inc. is not responsible for any changes in the state of the equipment after the inspection is completed including but not limited to: final installation practices, mechanical controls, operations or utilization parameters, or any other change in the state of the equipment from its state at the time of the inspection; and, makes no assertion, finding, representation, guarantee or warranty concerning the possible effects upon the inspected equipment from such changes, or the state of such inspected equipment at any time after the inspection is completed.

Case 17-36605 Document 88-2 Filed in TXSB on 05/16/18 Page 22 of 133

Blazer Inspection, Inc. 2602 Texas Ave. Texas City, TX 77590 US 409-948-1012 jspruiell@blazerinspection.com www.blazerinspection.com



BILL TO Paragon Fab, Inc. 500 Main La Marque, Tx 77568

INVOICE 2317

DATE 01/25/2018 TERMS Net 30

DUE DATE 02/24/2018

PURCHASE ORDER 2293-4658

ACTIVITY	QTY	RATE	AMOUNT
Radiographic Testing:2 Person Radiography Crew ST @LaMarque, RT Report #10-1252018-1 & 10-1252018-2, 1/25/2018	8	92.00	736.00
Radiographic Testing:2 Person Radiography Crew OT	4	138.00	552.00
Radiographic Testing:Film:4.5x17 Inch Film	45	9.00	405.00
Miscellaneous Charges:Equipment Charge	1	50.00	50.00
Miscellaneous Charges:NDE Truck	1	65.00	65.00

TOTAL DUE \$1,808.00

14.88-2 Filed in TXSB on 05/16/18 Page 23/of 1320/8 -/

Case 17-36605	Legellment 88-2
AZA	Texas City, TX 77590
Tollies 7	Office (409) 948-1012
100	Fax (409) 948-0839
The state of the s	www.blazerinspection.com
ECTION INC.	

Page	1	of	2
-			

INAPEC	TION INC													SC#	
CUSTOMER/CONTAC	T F	Para	301	7										DATE //	25/18
LOCATION/ADDRESS	1	a Ma	BAE	DET S	-×.	171			TK#	138	+ #	139	7	/	
UNIT/SYSTEM J	1/2-	# 23	293	15.)/	Va	1 1	Mase		Pin	'ne	The state of the s	P.O. 26	193-4658
MATERIAL	CSA	CSB	15	С	D	E			1 1			11	alta l		Optional
THICKNESS	.375 ^A	.375	.373	C	D	E			Film	est to the			The state of the s	Source	Source \$ Location \$
DIAMETER	18 A	16 B	20	С	D	Е			VZ diree	R X	Source			Film	
REINF. THICKNESS	.125 ^A	.125B	.125	C	D	Е	W					FILM			Film
SFD	83/4	7/2	91/2	C	D	Е		SWE/SV	w \square		SWE/SWV		SWE/	SWV	DWE/SWV
EXPOSURE TIME	2 [^]	112 B	21/2		D	Ε		Optio Sour	ce	3	Source	#	Å So	urce 🕌	
IQI SIZE/MATERIAL	BA	B	B	С	D	Е	P	H Locat	ion 🛱	100					
IQI LOCATION (S/F)	FA	FB	F	С	D	Е					A	Kananan	()		
SHIM THK & MAT'L	.375 ^A	.375B	,375	c	D	Ε	***	DWE/SV	Film	/	FILM' DWB/DWV		DWE/	FILM DWV	-
# OF EXPOSURES	a	a	2	С	D	Е							,		
MARKERS: NBR OR SPACING	11.3	12.5B	125	C	D	Ε									
SOURCE	50	kV	Ма		OCAL SPOT		REEN O		RONT REAR . O		ILM LOAD	The second second	Double	FILM PROC	
Co		CEDURE		_	EPTANCE STA	_			SURFACE			<u> </u>	Double	TEMP	Comin
X-Ray	RI	-30	0	1	PPI 1	10	4		5	mi	001	4		AUTO	
STAGE OF MANUFAC	.X.1540.1X.545-1			INTERM				INAL	L	REPAI	0.0		ORE PWHT		AFTER PWHT
C - CRACK SL - SLAG T - TUNGSTEN	P - PORC	STER POR SITY/GAS LOW BEA	POCKI D	ET	IP - INSUFFI IF - INSUFFI EP - EXCES	CIE	NT FU	SION		IL	J - INTER	RNAL UNI NAL UNDI NAL CON	ERCUT	HL - IF	SURFACE P DUE TO HIGH/LOW URN THROUGH
WELD			PEN	SITY WIEĻD	ACC	R	EJ	L	IST INDIC	ATIONS				ID - OTHER	ID - REMARKS
W#47		1-2	2+	p 4	W	1	+					"X"			
		2-3	1	1			#					_			
		1-5			W										
1.15.110		5-1	_			4	\dashv					11011			
W#48		1-2	-	+		+	┽┼					HX11			
		3-4			1	1	+								
		4-5			1	, [
		5.1			1										
W#49		1-2			V	L						"X"			
		2-3	1		V	Ļ	4					-			
	3	3-4	_		V,	1	44								= I
		1-5	1/	1	W/	1 -	++					+			
ADDITIONAL PA		5-1	V	V	- W							1-			
	GES	CO	MMENT	S:	proge #	ø	Τ,	THA DDA	ND/TVDE					TOTAL # 01	- WELDS
# OF FILM AND SIZE	1.5	"x/	7	′′	*	16			ND/TYPE	A5+	5	<u>D3</u>	111.21.11	TOTAL # OF	
1/25/18	Customer	Contact	2	_	_		Diem	No	2	Report 10 -	# 125 a	018-1	Unit #	0	No. on Job
Travel if Applicable	11			1/1	Airlines	H		Hours:		garaner.	1			19000	Total Hrs
Hours	16	Miles Total:	/	yn	Vehicle	1		Vorked	1	to	6(AM) a	nd T	to	GPM 12
Signature of Customer's	Represe	ntative cert	tifies tim	e and m	aterial correct			/	Mar		nature on	d Level of	Evaminar	100	Y OrVINE Assistant
orginatury or oustorners	A vehidage	mative cell	mes titti	c and me	aterial correct				IVa	arrie, oig	nature, all	a revei of	LAGITITIE!		Assistant

Customer signature indicates satisfactory performance and agreement with time, material, equipment and costs associated with this project. An invoice will be submitted reflecting the current rates on file.

Acknowledgement:

The test results reported herein by the inspection technician are valid at the time of inspection only. Blazer Inspection, Inc. is not responsible for any changes in the state of the equipment after the inspection is completed including but not limited to: final installation practices, mechanical controls, operations or utilization parameters, or any other change in the state of the equipment from its state at the time of the inspection; and, makes no assertion, finding, representation, guarantee or warranty concerning the possible effects upon the inspected equipment from such changes, or the state of such inspected equipment at any time after the inspection is completed.

Case 17-36605 Document 88-2 Filed in TXSB on 05/16/18 Page 25 of 133



2602 Texas Avenue Texas City TX 77590 Office (409) 948-1012 Fax (409) 948-0839 www.blazerinspection.com

ige i	_0 ,01	100				
10	-/2	,	- 4	-		-
10	-1/)		×	****)
10	, ~	- 0X	01	0		α
_						

READER SHEET

Page Q of Q

CUSTOMER/CONTACT DATE LOCATION/ADDRESS UNIT/SYSTEM EU - EXTERNAL UNDERCUT C - CRACK **CP - CLUSTER POROSITY** IP - INSUFFICIENT PENETRATION SU - SURFACE SL - SLAG P - POROSITY/GAS POCKET IF - INSUFFICIENT FUSION IU - INTERNAL UNDERCUT HL - IP DUE TO HIGH/LOW T - TUNGSTEN HB - HOLLOW BEAD **EP - EXCESSIVE PENETRATION** IC - INTERNAL CONCAVITY BT - BURN THROUGH DENSITY WELD VIEW PEN WIELD ACC LIST INDICATIONS WELDER ID - OTHER ID - REMARKS "E" W#70 2-3 3-4 W# 83 X 11511 1-2 2-3 3-4 W#7 11FII 1-2 3-4 W# 84 11 F 11 1-2 2-3 3-4 1 W# 85 1, E" 3-4 1 5-1 W#93 3-4 V Signature of Customer's Representative certifies time and material correct

Acknowledgement:

The test results reported herein by the inspection technician are valid at the time of inspection only. Blazer Inspection, Inc. is not responsible for any changes in the state of the equipment after the inspection is completed including but not limited to: final installation practices, mechanical controls, operations or utilization parameters, or any other change in the state of the equipment from its state at the time of the inspection; and, makes no assertion, finding, representation, guarantee or warranty concerning the possible effects upon the inspected equipment from such changes, or the state of such inspected equipment at any time after the inspection is completed.

Case 17-36605 Document 88-2 Filed in TXSB on 05/16/18 Page 27 of 133

Blazer Inspection, Inc. 2602 Texas Ave. Texas City, TX 77590 US 409-948-1012 jspruiell@blazerinspection.com www.blazerinspection.com



BILL TO Paragon Fab, Inc. 500 Main La Marque, Tx 77568 **INVOICE 2329**

DATE 01/30/2018 TERMS Net 30

DUE DATE 03/01/2018

PURCHASE ORDER 2286-466

ACTIVITY	QTY	RATE	AMOUNT
Ultrasonic Testing:Flaw Detection:2 Person UT Shear Wave Crew ST	8	132.50	1,060.00
Ultrasonic Testing:Flaw Detection:UT Shear Wave Equipment	1	250.00	250.00
Consumables:UT Materials:Ultragel Tube Tube	1	10.00	10.00
Miscellaneous Charges:NDE Truck	1	65.00	65.00

TOTAL DUE \$1,385.00

Documentes of the state of the

(409) 948-0839 www.blazerinspection.com

Page	1	of	ì
_	-	_	

sc# 1297019-1-7

		12 12010 132
CUSTOMER/CONTACT PARAGON	D	DATE 1-29-2018
LOCATION/ADDRESS TEXAS STRESS FINC		1212010
UNIT/SYSTEM	P	228646
DESCRIPTION Some FIGHT VESSEL (Non-less)		2206 16
	es laupeage of	ONDITION
0/3 (2) 48 + (2) 2 2 3.5	00 smá	OHO
BI-UT-500 Rev. O ASME So	CITT Div.1 1	EM TEMP CAL BLOCK TEMP
STAGE OF INITIAL REPAIR COMMENTS: MANUFACTURE FINAL	SURFACE PF	REPARATION 80
LONGITUDINAL OTHER TYPE OF	Smo	OURLANT
SHEAR WAVE EXAM UTS W INSTRUMENT TRANSDUCER		Ultragel II
MFG: Fanametrics MFG: Technisonic Model: ABFQ-0502 CAP FREQ: 5.0 S/N: 070129609 S/N: 79046 SIZE: 25 CALIBRATION BLOCK	ELEMENT SINGLE DUAL	WEDGE ANGLE: 70,60,345 MEAS. ANGLE: 70,60,345 DELAY:
FLAT CURVED TIWIT ASME PID MATERIA	S MFG.	3E/BCB/CS/34'/E15
COMMENTS INCLUDE ACCEPT/REJECT	TE -	DNAL PAGES
Part#		
	No Reject	rahle
51017448 Nozzle 3ª	Indications	s at the
51018486 Nozzle 4	1	
01013700 1002210	time of in	spection,
		3.0
•		
		•
SENSITIVITY CAL INITIAL INTERM INTERM FINAL		
LEVEL TIME 5:00		
CONSUMABLES: COUPLANT GAL TUBE Date Customer Contact Per Diem Pencet #		HIGH TEMP.
1-24-2018 Paragon Yes No No No Neeport#	Unit #	No. on Job
Travel if Applicable Airlines Hours: Hours: Miles Total Vehicle Worked	to Cl. O'D AM and to E	Total Hours
in the second se	TO THE RELEASE OF THE PARTY OF	D:0CPM 8
Brandan Bornott	v Loolin Lei	1el IIX
Signature of Customer's Representative certifies time and material correct Name, Sign	ature, and Level of Examiner	Assistant

Customer signature indicates satisfactory performance & agreement with time, materials, equipment and cost associated with this project. An invoice will be submitted reflecting the current rates on file UT-BI-001

Case 17-36605 Document 88-2 Filed in TXSB on 05/16/18 Page 29 of 133

Blazer Inspection, Inc. 2602 Texas Ave. Texas City, TX 77590 US 409-948-1012 jspruiell@blazerinspection.com www.blazerinspection.com



BILL TO Paragon Fab, Inc. 500 Main La Marque, Tx 77568 **INVOICE 2353**

DATE 02/01/2018 TERMS Net 30

DUE DATE 03/03/2018

PURCHASE ORDER 2293-4671

ACTIVITY	QTY	RATE	AMOUNT
Radiographic Testing:2 Person Radiography Crew ST @LaMarque, RT Report #1280, 1/31/2018	8	92.00	736.00
Radiographic Testing:2 Person Radiography Crew OT	6	138.00	828.00
Radiographic Testing:Film:4.5x17 Inch Film	45	9.00	405.00
Miscellaneous Charges:Equipment Charge	1	50.00	50.00
Miscellaneous Charges:NDE Truck	1	65.00	65.00

TOTAL DUE \$2,084.00

Case 17-36605 Document 88-2 Filed in TXSB on 05/16/18 Page 30 of 133 # - 1280

2602 Texas Avenue
Texas City, TX 77590
Office (409) 948-1012
Fax (409) 948-0839
www.blazerinspection.com

RADIOGRAPHIC EXAMINATION REPORT

SC#

Page _____of ____

CUSTOMER/CONTAC	T P	rag	on				1					DATE 1.3	1-18
LOCATION/ADDRESS		a, Ma	19	ve	TX								
UNIT/SYSTEM	Cor	val	Ma	es e	llan	P	p: p	5 Tank	- 13	38-13	9	P.O. ZZ	93-4671
MATERIAL	CISA	C/5 ^B	C		D	' E				[Source	Optional Source
THICKNESS	.375	.375 ^B	C		D	Е	(Table)	Film	NO TOTAL	× = -10=			# Location #
DIAMETER	8" A	12"B	C		D	Е		Source	(*	Sources		Film	
REINF. THICKNESS	.125 A	.125 B	C		D	Е				FILM			Film
SFD	8" A	12" B	C		D	Е	SW	E/SWV]	SWE/SWV	SWE,	/swv _	DWE/SWV
EXPOSURE TIME	Imin	139/B	C		D	Е		Optional Source	3	Source -	* * * *	ource *	
IQI SIZE/MATERIAL	BA	BB	C		D	Е	* 1	.ocation #	1				
IQI LOCATION (S/F)	F	FB	C		D	Е							
SHIM THK & MAT'L	A	/B	C		D	Е		Film Film	1 1000	FILM' DWE/DWV	I DWF	Film /DWV	
# OF EXPOSURES	3 ^	3 B	C		D	Е		E/SWV		D#E/ D#V	DWE	/ DW V	
MARKERS: NBR OR SPACING	9.03	11.93B	(D	Е							
SOURCE	90°	kV	Ма		CAL SPOT		REENS	FRONT.		ILM LOADING	Double	FILM PROC	ESS: AgRa
D c₀	_	OCEDURE		_	PTANCE S				CE COND		Double	TEMP 68	0
X-Ray			-	A		104						☐ AUTO	MANUAL
STAGE OF MANUFAC	CTURE			NTERM	EDIATE		FINA	_ [REPAI	R 🗌	BEFORE PWH	IT	AFTER PWHT
C - CRACK		JSTER PO		-			NT PENET				L UNDERCUT		URFACE DUE TO HIGH/LOW
SL - SLAG T - TUNGSTEN		DSITY/GAS	D				ENT FUSIO E PENETR			J - INTERNAL C - INTERNAL			URN THROUGH
WELD				WIELD	ACC	-	REJ	LIST INDI	CATIONS		WELDER	ID - OTHER	ID - REMARKS
4-90			164 7	2404		1				<u> </u>			
0		3-1	+	+									
1.1291		1.2	+	+						- 1			
W- ()		2.3		\top	É					î			
	1	3-1			2					/			
W-92		.2		\perp		-				Х			
		2-3	+	—						-+	,		
1,47		3-1	+	+		1				- 1		^	10 10
W-11		2.3		1	1	1				- 1		1'Q1	ALC I V
Table 1		3-1		-	7						,	1	
W-100		·Z			1					1		5/A	Ub Corre
		2.3								Ī		- Jan (1 -06- 1
F Company		3-1	(0					/	(i)	7	~ Chartys
ADDITIONAL PA	AGES	CO	MMENTS	3:						7.9		41.0	, DENSI,
# OF FILM AND SIZE			50	5 4	508		FILM	BRANDITYPI	__ ນ.	3		TOTAL # O	FWELDS
Date 1-31-12	Custome	r Contact	J		10	77.27.2	er Diem	No 🔀	Report	# Z8 O	Unit #	7	No. on Job
Travel if Applicable	^		1		Airlines	IX	Hours	s: 7	_	Nilyes to	and		Gran Tolling
Hours: Jhour	74	Ailes To(a);	70		Vehicle	ĻX	Work	eu /-/	Nυ Λ.	AM	1.4	-//	ALIPE
pres	Aa	XX	100	_			. (3 m		Crines	M	CU	evas, A
Signature of Customer Customer signature in the current rates on fil	dicates						me, materia				evel of Examiner th this project. A	n invoice will	Assistant be submitted reflecting

Case 17-36605 Document 88-2 Filed in TXSB on 05/16/18 Page 31 of 133

BLAZER INSPECTION

Nondestructive Testing

2602 Texas Avenue • Texas City, TX 77590

(409) 948-1012

REPORT OF RADIOGRAPHIC INSPECTION OF WELDS

Report No. 1250
Page Z of Z

		Welds		Acce	ide otable	Ехфо	eures	No. of	Pipe Size	Location and Type of
X-Ray Numb	e r	Ву	Location	Yes	No	In	Out	Ехр.	(Dia)	Defects in Rejectable Welds
W-1	02	K	1.2						\mathcal{B}^{T}	D 21 21 21
		1	2.3				\Box		7	Density 2404
		 	2-1	+-	<u> </u>			\neg		
<u> </u>	2	 	1.2	+	<u> </u>		+		60	
4-1	<i>ე</i> ⊃	K	1	1/	\vdash		-		8"	
			23							· · · · · · · · · · · · · · · · · · ·
		<i>Y</i>	3~ (<i>y</i>	
W1	64	K	1.2					1	B ²	
			2.3	1				1 1	7	
		 	3-1	ナン	-			 		
7 . 1	<u> </u>	1	1 3	+ -			┝─┤	+-	R T	
6-1	<u>06</u>), Z	 			\vdash		81	
			2.3							
		<i>y</i>	3~			ĺ		1	9	
4-	1~7	V	1.2	1					8"	
V -	10 /		1 4	+	<u> </u>			+	⊢ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
		<u> </u>	23	 _ _				4	1/	
			3-1		<u> </u>				7	
W-1	68	K	3.2				Ī		A 1	
•		1.	2.3	17	_				7	
		<i> </i>	3-1	1	<u> </u>		H			
7 7	15	 	1.2	+//			-	+	8.1	
4-1	10	 		 			╂──┤	-	<u> </u>	
		<u> </u>	2-3	_	<u> </u>		1			
			3-1						<i>y</i>	
WI	[[K	トて	1//	1				21	
			2.3						7	
		1	2	+ /						
11/10		×	7 7	+ /			1-1	\dashv	0"	
WO	1	1	1. 2	1/	$\overline{}$		4		<u> </u>	
	_		2.3	1/					_]	
_		/	3-1	1//					1	
4-10	1	K	1.2	7/					ζ.	
		1	2.3	1//						
		+ <i>U</i>	3.1	+/-			+	\dashv	- - 	
		↓ /	<u> </u>	+	<u> </u>		$oldsymbol{\perp}$		-/ -	
		<u> </u>			L					
				1	[
				†						
		 		1			\rightarrow			
		-		+						
				_						
								l		
							T			
										· · · · · · · · · · · · · · · · · · ·
	· · · -	 		+	\vdash		 {			
				1		\Box				
		<u> </u>								
mber of Welds	<u> </u>	Number	« <u> </u>	7	- 114 (44)	ppilcab	<u></u>		Time Weden	7074
diographed	VLI	Redlogn		""	A (11 S	الانتان الإنهاب محسر			Time Worker	
	ا حين	Person		hou	ing	miles				1 // ~ /)
ERDIEM)	Signature o	f Redinare	oher LVL-11	-	dia	onhar	Accie	lon*	1	
				148	diogh	Abuet.	Assist	MINT	_	Signature of Co. Rep.
res (Ng/	(つ)		/\	1	/	1			Λ	(confirms time and material correct)
				7	(111	Na	9 /	4	14 1 1XXV. 1
	PRINTED NAM	IE	incs, Mi	14		UU	, y	- 218	•	I Y Live Market Market

Case 17-36605 Document 88-2 Filed in TXSB on 05/16/18 Page 32 of 133

Blazer Inspection, Inc. 2602 Texas Ave. Texas City, TX 77590 US 409-948-1012 jspruiell@blazerinspection.com www.blazerinspection.com



BILL TO Paragon Fab, Inc. 500 Main La Marque, Tx 77568 **INVOICE 2355**

DATE 02/02/2018 TERMS Net 30

DUE DATE 03/04/2018

PURCHASE ORDER 2293-4071

ACTIVITY	QTY	RATE	AMOUNT
Radiographic Testing:2 Person Radiography Crew OT @LaMarque, RT Report #1243, 2/1/2018	4	138.00	552.00
Radiographic Testing:Film:4.5x17 Inch Film	25	9.00	225.00

Equipment and truck charge located on Invoice 2354 for same crew, same day.

TOTAL DUE \$777.00

2602 Texas Avenue Texas City, TX 77590 Office (409) 948-1012 Fax (409) 948-0839 www.blazerinspection.com

RADIOGRAPHIC EXAMINATION REPORT

Page	1	of	7
-			

- 1243

												SC#		
CUSTOMER/CONTAC	T Fa	nag	200									DATE 2	-1-1B	
LOCATION/ADDRESS	6 6	7 /	lar	3.110	7-1									
UNIT/SYSTEM	2011	-1 /	Nag	1.	, ,	10	ing	Tank	- 12	38-13	9	P.O. 92	93 407	1/
MATERIAL	C15		В	С	D/	E						Source	Optional	Ø
THICKNESS	,375		В	С	D	Е		Film	and the same				Source & Location	☆
DIAMETER	201		В	С	D	Ε		Source	(*	Source		FIM		
REINF. THICKNESS	125		В	С	D	Е				FILM			F	itn
SFD	Wi A		В	С	D	Е	S	WE/SWV		SWE/SWV	SWE,	/swv 🔲	DWE/SWV	
EXPOSURE TIME	4/2m	-	В	С	D	E		Optional Source	Ž	Source	* * so	ource ¥		
IQI SIZE/MATERIAL	B		В	С	D	E		Location #						
IQI LOCATION (S/F)	FA		В	С	D	E		MA						
SHIM THK & MAT'L	A		В	С	D	E	D.	Film WE/SWV	/	Film DWE/DWV	DWE,	Film /DWV		
# OF EXPOSURES	5 ^		В	С	D	E		3570	1					
MARKERS: NBR OR SPACING	1256		В	С	D	E	-=		. (- -			Isu w ppoor	500. A C	
SOURCE Tr Co X-Ray	13 NDE PRI	ocedur	Ma EE	ACCE	CAL SPOT	ANDA	REENS RD	SURFAC	CE COND		Double	TIME 7(MANUA	
STAGE OF MANUFAC	CTURE		ليرا	INTERM	EDIATE		FINA	L L	REPAI		BEFORE PWH		AFTER PWH	Г
C - CRACK SL - SLAG T - TUNGSTEN	P - POR		OROSITY AS POCK EAD		IP - INSUF IF - INSUF EP - EXCE	FICIEN	NT FUSIC	N	IL	U - EXTERNAI J - INTERNAL C - INTERNAL	UNDERCUT	HL - IP	URFACE DUE TO HIGH/LI JRN THROUGH	ow
WELD		VIEW	DEN PEN	SITY WIELD			EJ	LIST INDI	CATIONS		WELDER	ID - OTHER II	D - REMARKS	
W-36		.2	204	7. foy							X			
	7	2.3	1			1	-				1			
	- 3	3.9	+	_		4+	┽┼╌				1,			
		-5	+	+		1 -	-	,			X			
9137)	12	_	1	1		-				1			
	- 2	2.3		-	1	11	-							
		-4									1			
	- (45			1	1.[×			
	(5-1												
4-57		12												
		2.3)	A			
		3-4	\neg					=			١			
•		4-5				1					1.			
		5-1									Y			
ADDITIONAL PA		-	OMMENT	·S·							-			
# OF FILM AND SIZE			O -	<u>. </u>			FILM	BRAND/TYPE	1	<u> </u>	3	TOTAL # OF	WELDS	
Date .	Custome	er Contac	25 t			Per	Diem	A.	Report		Unit #		No. on Job	
2-1-18 Travel if Applicable	1	ero	my		Airlines	Yes	Hou	No 🗌	113	243	1 /3		ITC	otal Hrs
Hours: Nour		Miles Tota	al: U	0/	Vehicle	K	Wor	/ -	∧ to	AM	and	to	DAM	4/10
Perenny	1	وليك	ur/	/	antarial			62	<u> </u>	(Cri	25 (<u>l</u> vei	1c S, A	
Signature of Custome	s Kepres	entative	certines ti	me and r	naterial corre	UL Like 4'		nt anviews -t	ane, Sigi		vel of Examiner		he submitted refle	ecting

Case 17-36605 Document 88-2 Filed in TXSB on 05/16/18 Page 34 of 133

BLAZER INSPECTION

Nondestructive Testing

2602 Texas Avenue • Texas City, TX 77590 (409) 948-1012

Report No. 1743
Pg Zoi Z

REPORT OF RADIOGRAPHIC INSPECTION OF WELDS

		Welds		Welds Acceptable		Exposures		No. of	Pipe Size	Location and Type of
X-Ray Number		Ву	Location	Yes		In	Out	Exp.	(Dia)	Defects in Rejectable Welds
W-50	\sim	X	1-2	-			ī	,	Zon	Da. 31 7111
			2-3 34		_		\top		1	Density Chay
			34				Π			/
			40	/			1			
		-	5-1	/						
W-88		V	1.2				H		764	
		1	23	/				1	10.	
			3.4	/			\vdash	 -	 	
		-	4	'			\vdash		 	
			5-1	/		 -	-	 	 y 	
		/	 	-	<u> </u>	 	μ_		 /	
						 		ļ —	 -	
			ļ		 					
					<u> </u>		<u> </u>	ļ		
									L	
					<u> </u>					
	i			<u> </u>				l		
					ĺ					
					1			i		
				İ						
						T				
						<u> </u>				
					1					
					 	†	 -			
					<u> </u>					
				1					·	1
				<u> </u>	t	<u> </u>	1		 	
		· · · · · · · · · · · · · · · · · · ·		1	 					
		t			<u> </u>	1				
		l			\vdash			 		
-				 	†	 		 	†	
		 	<u> </u>		T		 	 	<u> </u>	
		 	 	t	 					
			 	 	+	 	 		 	
		┸_		1	.L	<u> </u>	l	L	1	<u> </u>
Number of Welds Radiographed	PGI	Numbe Radiog Person	raphic		avel (if	applical			1	am am HOURS 1743
PERDIEM	Signature	of Radio	grapher	一百	adion	raphe	r Assi	stant		Signature of Co. Rep.
Yes No	32	I)		>	$\frac{1}{2}$	1	46	/a 5,	A	(confirms time and material correct
Our	letters and rep	oorts apply o	nly to the sample tested an	d/or ins	pected,	and are	not ne	cessarily in	ndicative of the	qualities of apparently indentical of similar products.

Case 17-36605 Document 88-2 Filed in TXSB on 05/16/18 Page 35 of 133

Blazer Inspection, Inc. 2602 Texas Ave. Texas City, TX 77590 US 409-948-1012 jspruiell@blazerinspection.com www.blazerinspection.com



BILL TO Paragon Fab, Inc. 500 Main La Marque, Tx 77568

INVOICE 2356

DATE 02/05/2018 TERMS Net 30

DUE DATE 03/07/2018

PURCHASE ORDER 2293-4671

ACTIVITY	QTY	RATE	AMOUNT
Radiographic Testing:2 Person Radiography Crew OT	10	138.00	1,380.00
Radiographic Testing:Film:4.5x17 Inch Film	42	9.00	378.00
Miscellaneous Charges:Equipment Charge	1	50.00	50.00
Miscellaneous Charges:NDE Truck	1	65.00	65.00

TOTAL DUE \$1,873.00

RADIOGRAPHIC EXAMINATION REPORT

2602 Texas Avenue
Texas City, TX 77590
Office (409) 948-1012
Fax (409) 948-0839
www.blazerinspection.com

Page	1	of	2

CUSTOMER/CONTAC	T Pa	1799	27								DATE Z-	3-18
LOCATION/ADDRESS	sla		9/9/4	w.D	!							
UNIT/SYSTEM	CA	~ 1/9	1 1	AA	ellar	Pi	Pina T	k-138	-139	F	P.O. ZZ	93-4671
MATERIAL	254	188	12,6	10"							Source	Optional Source
THICKNESS	375	375	.375°	375	E		Film					
DIAMETER	20"	18 us	12 mc	10 "	E	OX	Salve	20	purces		Film)	
REINF. THICKNESS	.125 A	125B	.125°	.125	E				FILM			Film
SFD	2044	18 "B	12"0	10"	E		SWE/SWV] SWE/S	SWV	SWE/S	wv 🔲	DWE/SWV
EXPOSURE TIME	Brin	5 /2m	.3mg	7/2	E		Optional Source	∦ So	urce 🕺	Å Sou	rce 🛊	
IQI SIZE/MATERIAL	BA	BB	B°	B	E	*	Location #					
IQI LOCATION (S/F)	FA	FB	F°	F			MA		Name of the last o			
SHIM THK & MAT'L	A	/B	\cdot\(\)				Fith DWE/SWV	DWE/	Film DWV	DWE/I	FILM	
# OF EXPOSURES	6	4 8	3 °	3						The said		
MARKERS: NBR OR SPACING		17.56B	11.03°	9,03	E							
SOURCE Ir	93	kV	Ма	FOCAL S	SPOT S	CREENS	FRONT. C	47 61	OADING Single	¬ l	TIME S	
Co	NDE PRO	CEDURE	PalD	ACCEPTAN	CE STANI	ARD	SURFA	CE CONDITION	N		TEMP 60	MANUAL
STAGE OF MANUFA		. 500		TERMEDIA	E	FIN	iAL	REPAIR	В	EFORE PWHT		AFTER PWHT
C - CRACK SL - SLAG	CP - CLUS P - PORO				NSUFFICI NSUFFICI		ETRATION ION	IU - IN	TERNAL UI		HL - IP	JRFACE DUE TO HIGH/LOW
T - TUNGSTEN	HB - HOLI	LOW BEA	DENSI		EXCESSI	VE PENET	RATION	IC - IN	ITERNAL C			JRN THROUGH
WELD		/IEW	PEN V	VIELD	ACC	REJ	LIST IND	ICATIONS	×	WELDER II	D - OTHER II	D - REMARKS
W-06		3							T			
		.4					Principal Control					
	4	5										
	5	-1					Barrier Co.					
W-87	1-								— X			
		.3				\vdash			\rightarrow			
	3	3-4					1		\rightarrow			
	14	-5				\sqcup	the contract of					
		-]							/	<i></i>		
W-113	1	. 2							>	(
	2	3							1			
	3	-4										
	y				1		4			- 77%		
	1	-1				П	7			V		
T ADDITIONAL D	, OFC		MMENTS				1	777		14.5		
ADDITIONAL P		CO	IVIIVIEIVIS			Ten.	M BDAND (D/I	NF 1			TOTAL # OF	WELDS
# OF FILM AND SIZE	7745	7	UZ	•		FIL	LM BRAND/TY	Dala '	D3	44.7	- TAL #	
7/	1271	1	70		1-	os Di-	J	I Bonort #		Unit #		No on Joh
3-3-18	Customer	Contact				er Diem es 🔲	No 🔽	Report #	87	l l	2	No. on Job
Travel if Applicable Hours:	- / M	il ĝ s Total:	40	Airli Veh			ours:	· na	AM	and	to	40m Total His
1	XX	h		/			0	160	nes	n	17	11:
Signature of Cultome	er's Rodress	entative of	ertifies tim	e and materia	al correct	_	Shi	Name, Signatur	re, and Leve	el of Examiner	Le	Assistant
Customer signature in the current rates on f	ndicates	tisfactory	performan	ce and agree	ment with	time, mate					n invoice will l	be submitted reflecting

Case 17-36605 Document 88-2 Filed in TXSB on 05/16/18 Page 37 of 133

- 1043



2602 Texas Avenue Texas City TX 77590 Office (409) 948-1012 Fax (409) 948-0839 www.blazerinspection.com

READER SHEET

Z of Z 782

CUSTOMER/CONTACT 1990n Marquer LOCATION/ADDRESS ZZ93 P.O. UNIT/SYSTEM CP - CLUSTER POROSITY EU - EXTERNAL UNDERCUT SU - SURFACE C - CRACK IP - INSUFFICIENT PENETRATION P - POROSITY/GAS POCKET IF - INSUFFICIENT FUSION IU - INTERNAL UNDERCUT HL - IP DUE TO HIGH/LOW SL - SLAG IC - INTERNAL CONCAVITY BT - BURN THROUGH EP - EXCESSIVE PENETRATION HB - HOLLOW BEAD T - TUNGSTEN DENSITY WELDER ID - OTHER ID - REMARKS ACC LIST INDICATIONS REJ WELD PEN WIELD ·Z X Etack 2464 X X W-34 1-2 1 W-62 2 3-4 1-2 W63 1 1 П 3-4 ICSB INCOR SB X 1.2 23 П Name, Signature, and Level of Examiner certifies time and material correct

Customer signature indicates satisfactory performance and agreement with time, materials, equipment and cost associated with this project. An invoice will be submitted reflecting the current rates on file.

Case 17-36605 Document 88-2 Filed in TXSB on 05/16/18 Page 38 of 133

Blazer Inspection, Inc. 2602 Texas Ave. Texas City, TX 77590 US 409-948-1012 jspruiell@blazerinspection.com www.blazerinspection.com



BILL TO Paragon Fab, Inc. 500 Main La Marque, Tx 77568

INVOICE 2373

DATE 02/06/2018 TERMS Net 30

DUE DATE 03/08/2018

PURCHASE ORDER 2293-4686

ACTIVITY	QTY	RATE	AMOUNT
Radiographic Testing:2 Person Radiography Crew ST @LaMarque, RT Report #252018-8	8	92.00	736.00
Radiographic Testing:2 Person Radiography Crew OT	4	138.00	552.00
Radiographic Testing:Film:4.5x17 Inch Film	48	9.00	432.00
Miscellaneous Charges:Equipment Charge	1	50.00	50.00
Miscellaneous Charges:NDE Truck	1	65.00	65.00

TOTAL DUE \$1,835.00

Case 17-36605 Degument 88-2 Filed in TXSB on 05/16/18 Page 39 of 133
Texas City, TX 77590
Office (409) 948-1012 Fage 1 of 2 Fax (409) 948-0839 www.blazerinspection.com

Page	i	of	2
SC#	25	- 2016	8-8

CUSTOMER/CONTAC	Pasagon	DATE 2-5-18
LOCATION/ADDRESS	F G G G G G G G G G G G G G G G G G G G	Ks 138+139
UNIT/SYSTEM	Division ingeliar labelle	P.O. 2293-46960 \
MATERIAL	$CS^A = C$	Source Source Source
THICKNESS	STD A - B - C D E	* Location *
DIAMETER	24" 18" 16" DE	Sources Sources Sources
REINF. THICKNESS	125 - B - C D E	SWE/SWV SWE/SWV DWE/SWV DWE/SWV
SFD	24.125 18.125 DE	SHE/SHV SHE/SHV SHE/SHV
EXPOSURE TIME	14 8 6 C D E	□ptional Source Source Source
IQI SIZE/MATERIAL	Buide - B - C D E	
IQI LOCATION (S/F)	A = B = C $D = E$	
SHIM THK & MAT'L	NA	DWE/SWV DWE/DWV DWE/DWV
# OF EXPOSURES	6 5 8 4 ° D E	2.0,2
MARKERS: NBR OR SPACING	17.56 [1.3] [2.56	
SOURCE Ir		REAR .005 PILM LOADING FILM PROCESS: ASTA REAR .005 Single Double TIME 3 min
Co	MDE PROCEDURE ACCEPTANCE STANDA	
X-Ray	BIRT300REVO API1104	meta auto Manual
C - CRACK	•—•	FINAL REPAIR BEFORE PWHT AFTER PWHT
SL - SLAG T - TUNGSTEN	P - POROSITY/GAS POCKET IF - INSUFFICIEN HB - HOLLOW BEAD EP - EXCESSIVE	
WELD		REJ LIST INDICATIONS WELDER ID - OTHER ID - REMARKS
W- 8	2-3 3.2 3.2	X
	3-4 3.4 3.4	
	9-5 3.2 3.6	
1	56 3.1 3.3	
W-9	1-2 3.2 3.3	
	2-3 24 33	
	3° 4 2.60 3.7	
	5-6 3.4 3/0	
4	6-1 3.23.7	
ADDITIONAL PA	GES COMMENTS:	
# OF EKM AND SIZE	651/211	FILM BRAND/TYPE TOTAL # OF WELDS
Date 2-5-18	Customer Contact Per Yes	Diem Report # Unit # No. on Job
Travel if Applicable Hours:	Miles Total: 20 Airlines Vehicle	Hours: Q Total Hrs
	Verlice V	Worked to AM and to PM 12HB
eren !	Hely/	E LEON C. Traban
Signature of Customer's	Representative certifies time and material correct	Name, Signature, and Level of Examiner Assistant

current rates on file.

Case 17-36605 Document 88-2 Filed in TXSB on 05/16/18 Page 41 of 133

BLAZER INSPECTION

Nondestructive Testing

2602 Texas Avenue • Texas City, TX 77590

(409) 948-1012

Report No.

REPORT OF RADIOGRAPHIC INSPECTION OF WELDS

Page 2 of 2

	Welds			Velds eptable	Expo	seures	No. of	Pipe Size		Location and Type of
X-Ray Number	Ву	Location	Yes	No	In	Out	Ехр.	(Dia)		Defects in Rejectable Welds
W-21	E	1-2	/			/	1	160"	2.99	
1	1	2-3					1	1	3.61	
	-	3-4				\Box			3,5	
	1	4-1	+	+		+	-	111	3.8	
			\rightarrow	+		+		161	3.8	
N75	X	1-2				\vdash	_	18"	2,9	
1		2-3						ī	3.1	
		3-4							2.8	
		4-5							2.9	
$-\bot$		3-1	+	\vdash			-	18"	0 /	
100	V		-	\vdash	-	H	_	18		
V-77	X	1-2		Н		H			2.4	
1		2-3							2.5	
		3-4							26	
		11	+	-		\Box				
	-		\dashv		-	H	-	12.11	3./	
-	-	5-1	\perp					18"	3,2	
\$3 R	X	1-2	I				1	16"	2.9	
1		2-3						T	3.2	
	1	3-4	++	1		H			3.4	
-		4-1	+1	+	-	H		1/.11		
	1		\rightarrow			H		160"	3.0	
1-76	X	1-2	\perp					18"	3.1	
1	1	2-3						1	2.9	
		3-4							3.1	
		4-5	+	+			_		2.7	
	1	3-1	+	+		+	+-	1011	3.2	
- 0			++	+		H	-	18		
W-2	X	1-2	\dashv			\vdash	_	24"	3,3	
		2-3							3.4	
		3-4							3.7	
		4-5	\neg						3,3	
		5-6	+	_		H	1		2,8	
	-++		+	+	-	H	-		410	
	1	6-1	\rightarrow	-		H		0.111	3.1	
N-16	l X	1-Z						24".	4.8	
í		7-3						24"	2,3	
		3-4						1	3.7	
	1	4-3	+	+			+	-	36	
			+	+			-		3.5	
			+	+		H			3.6	
	-	6-1	1			/	,	241	3.8	
							,			
			1	+						
		+	+	+						
		+	-	-						
		F								
								T		ا ا ا ا ا ا ا
ber of Welds ographed	Numb	, ,	Т	ravel (If a	pplicab	10)		Time Works		TOTAL SECTICKET
ographed 🕒	Persor	praphic		Ouro -	milea			ar		HOURS 252010 6
			_	<_				pm	pm	1 20XU17-8
	ure of Radiogr	apher LVL	- F	adlogr	apher	Assis	tant		Signature	e of Co. Rep.
s (No) 5	15	11								me and material correct)
0 6	70	ma.	<u> </u>	7-		1			()	1410
		1 1		17		/	4		Jeru	
PRINTE	NAME 7 '	10 to 00/1	· ·		111	. 0 .	/		1 14774	4 \ X\ \(\) \ X\ \\ X\

Case 17-36605 Document 88-2 Filed in TXSB on 05/16/18 Page 42 of 133

Blazer Inspection, Inc. 2602 Texas Ave. Texas City, TX 77590 US 409-948-1012 jspruiell@blazerinspection.com www.blazerinspection.com



BILL TO Paragon Fab, Inc. 500 Main La Marque, Tx 77568

INVOICE 2378

DATE 02/07/2018 TERMS Net 30

DUE DATE 03/09/2018

PURCHASE ORDER 2293-4691

ACTIVITY	QTY	RATE	AMOUNT
Radiographic Testing:2 Person Radiography Crew ST @LaMarque, RT Report #10-262018, 2/6/2018	8	92.00	736.00
Radiographic Testing:Film:4.5x17 Inch Film	38	9.00	342.00
Miscellaneous Charges:Equipment Charge	1	50.00	50.00
Miscellaneous Charges:NDE Truck	1	65.00	65.00

TOTAL DUE \$1,193.00

ase 17-36605

10-262018 DOGGLISS SELECTION REPORT PAGE 13 PAGE

SC#

Texas City, TX 77590 Office (409) 948-1012 Fax (409) 948-0839 www.blazerinspection.com

1	of	2
	1	/ of

CUSTOMER/CONTACT DATE arago LOCATION/ADDRESS UNIT/SYSTEM 3 MATERIAL Optional С D E THICKNESS D E DIAMETER D REINF. THICKNESS D Е SWE/SWV SWE/SWV SWE/SWV DWE/SWV SFD C D Ε **EXPOSURE TIME** Optional C D E IQI SIZE/MATERIAL C IQI LOCATION (S/F) C D Ε SHIM THK & MAT'L Film FILM DWE/DWV DWE/SWV DWE/DWV C D E # OF EXPOSURES MARKERS: NBR OR SPACING SOURCE FOCAL SPOT **SCREENS** FRONT FILM LOADING FILM PROCESS: 2 Ir REAR . DID TIME 6min ,010 10x.11 Single Double Co NDE PROCEDURE ACCEPTANCE STANDARD SURFACE CONDITION TEMP 7/ API X-Ray RT-300 MANUAL AUTO Smoo. STAGE OF MANUFACTURE FINAL INTERMEDIATE REPAIR AFTER PWHT BEFORE PWHT C - CRACK CP - CLUSTER POROSITY IP - INSUFFICIENT PENETRATION EU - EXTERNAL UNDERCUT SU - SURFACE SL - SLAG P - POROSITY/GAS POCKET IF - INSUFFICIENT FUSION IU - INTERNAL UNDERCUT HL - IP DUE TO HIGH/LOW T - TUNGSTEN HB - HOLLOW BEAD IC - INTERNAL CONCAVITY **EP - EXCESSIVE PENETRATION** BT - BURN THROUGH DENSITY WELD VIEW PEN WIELD ACC REJ WELDER ID - OTHER ID - REMARKS LIST INDICATIONS い#/3 1.2 11 X 11 2-3 3-4 4-5 v ナル 11X11 2-3 ~ ADDITIONAL PAGES COMMENTS: #1096 OF FILM AND SIZE FILM BRAND/TYPE TOTAL # OF WELDS Date Per Diem No. on Job 16/18 Yes [262018 Travel if Applicable Airlines Hours: Total Hrs Hours: Worked and to Signature of Customer's Representative certifies time and material correct Name, Signature, and Level of Examiner

Customer signature Indicates satisfactory performance and agreement with time, material, equipment and costs associated with this project. An invoice will be submitted reflecting the

current rates on file.

- 1096



2602 Texas Avenue Texas City TX 77590 Office (409) 948-1012 Fax (409) 948-0839 www.blazerinspection.com

READER SHEET

Page 2 of 2

DATE CUSTOMER/CONTACT LOCATION/ADDRESS UNIT/SYSTEM 2293 SU - SURFACE EU - EXTERNAL UNDERCUT C - CRACK - CLUSTER POROSITY IP - INSUFFICIENT PENETRATION HL - IP DUE TO HIGH/LOW IU - INTERNAL UNDERCUT SL - SLAG P - POROSITY/GAS POCKET IF - INSUFFICIENT FUSION IC - INTERNAL CONCAVITY BT - BURN THROUGH **EP - EXCESSIVE PENETRATION** T - TUNGSTEN HB - HOLLOW BEAD DENSITY WELDER ID - OTHER ID - REMARKS WELD VIEW PEN WIELD ACC LIST INDICATIONS W#15 1-2 104 3 2-3 200 3-4 6 N " 2 0年17 1-2 2-3 3-4 V 20 4-1 W#18 2 1/E11 1-2 W 23 3-4 V 4-1 2 П

Customer signature indicates satisfactory performance and agreement with time, materials, equipment and cost associated with this project. An invoice will be submitted reflecting the current rates on file.

Name, Signature, and Level of Examine

Signature of Customer's Representative certifies time and material correct

They were I clary from

other wife

Case 17-36605 Document 88-2 Filed in TXSB on 05/16/18 Page 47 of 133

PARAGON FABRICATORS, INC. **500 MAIN STREET** L'AMARQUE, TEXAS 77568

DAILY SHOOTING SHEET

PAG

	D/1	_	•	CN	,
				_	
1	=			1	OF
Į				•	Oi

•			GR	ADE TO		AP	i 1104	
P. 🖔 .#	10 2293-4691				D3 FILM	No.		
•			CORV	AL MAG	ELLAN PIF	ING TANK	<u>39</u> .	
PARAGON JOB#	WELD#	EXTENT	SIZE	тнк.	WELDER STENCIL	JOINT	MATERIAL TYPE	REMARKS
2293	W13		30" OD	.375"	"X"	BUTT WELD	CARBON STEE	DWG.#475-D-3916F PFI ISO#3916F
2293	W14	100%	30" OD	.375"	"X"	BUTT WELD	CARBON STEE	DWG.#475-D-3876 PFI ISO#3801S-D-D
2293	W15	100%	30" OD	.375"	"X"	BUTT WELD	ARBON STEE	DWG.#475-D-3717A PFI ISO#3717-D-D
2293	W17	100%	16" OD	.375"	"E"	BUTT WELD	ARBON STEE	DWG.#475-D-3922C PFI ISO#3922C-A-A
2293	W18	100%	16" OD	.375"	"E"	BUTT WELD	CARBON STEE	DWG.#475-D-3922C PFI ISO#3922C-A-A
iy		is			n.		i)	iv

	<u>.</u>							
			1			,		



Case 17-36605 Document 88-2 Filed in TXSB on 05/16/18 Page 48 of 133

Blazer Inspection, Inc. 2602 Texas Ave. Texas City, TX 77590 US 409-948-1012 jspruiell@blazerinspection.com www.blazerinspection.com



BILL TO Paragon Fab, Inc. 500 Main La Marque, Tx 77568 **INVOICE 2401**

DATE 02/12/2018 TERMS Net 30

DUE DATE 03/14/2018

PURCHASE ORDER 2293-4693

ACTIVITY	QTY	RATE	AMOUNT
Radiographic Testing:2 Person Radiography Crew ST @LaMarque, RT 10-292018-1 & 10-292018-2, 2/13/2018	8	92.00	736.00
Radiographic Testing:2 Person Radiography Crew OT	2	138.00	276.00
Radiographic Testing:Film:4.5x17 Inch Film	43	9.00	387.00
Miscellaneous Charges:Equipment Charge	1	50.00	50.00
Miscellaneous Charges:NDE Truck	1	65.00	65.00

TOTAL DUE \$1,514.00

ase 17-36605

Document 88-2

ed in TXSB on 05/16/18 Page 49 of 133 8- /
--

Texas City, TX 77590 Office (409) 948-1012 Fax (409) 948-0839 www.blazerinspection.com

Page	1	of	2		
	_/	- 100.0	0		

SC#

DATE CUSTOMER/CONTACT Paragor LOCATION/ADDRESS P.O. 93-46 UNIT/SYSTEM MATERIAL Optional Ε × THICKNESS DIAMETER REINF. THICKNESS 1125 Е SWE/SWV SWE/SWV SWE/SWV DWE/SWV SFD 8.60 EXPOSURE TIME Optional Source Location Source E IQI SIZE/MATERIAL B IQI LOCATION (S/F) SHIM THK & MAT'L 375 375 File FILM DWE/SWV DWE/DWV DWE/DWV E # OF EXPOSURES 3 2 3 MARKERS: NBR OR 9 SPACING SOURCE SCREENS Ci FOCAL SPOT FRONT FILM LOADING FILM PROCESS: REAR ,010 4Tr TIME Gmin 10x.11 2 Single Double TEMP 71 Co NDE PROCEDURE ACCEPTANCE STANDARD SURFACE CONDITION RT-300 API 1104 Smooth AUTO X-Ray MANUAL STAGE OF MANUFACTURE INTERMEDIATE FINAL REPAIR BEFORE PWHT AFTER PWHT C - CRACK CP - CLUSTER POROSITY IP - INSUFFICIENT PENETRATION EU - EXTERNAL UNDERCUT SU - SURFACE SL - SLAG P - POROSITY/GAS POCKET IF - INSUFFICIENT FUSION IU - INTERNAL UNDERCUT HL - IP DUE TO HIGH/LOW T - TUNGSTEN HB - HOLLOW BEAD **EP - EXCESSIVE PENETRATION** IC - INTERNAL CONCAVITY BT - BURN THROUGH DENSITY WELD VIEW PEN WIELD ACC-RF.I LIST INDICATIONS WELDER ID - OTHER ID - REMARKS 4 "X" W#44 R 1.2 V 2-3 3-4 6-1 W# 1-2 "X" 2-3 3-4 4-5 5-6 ADDITIONAL PAGES COMMENTS: 292018-2 # OF FILM AND SIZE FILM BRAND/TYPE TOTAL # OF WELDS X/7" 43 fa Customer Contact Date Per Diem Report # Unit # No. on Job 19/18 Yes [10 No 🛎 10-292018 Travel if Applicable Airlines Hours: Total Hrs Hours: Miles Total Worked (AM) and PM 10 to Signature of Customer's Representative certifies time and material correct Name, Signature, and Level of Examiner

Customer signature indicates satisfactory performance and agreement with time, material, equipment and costs associated with this project. An invoice will be submitted reflecting the

current rates on file

Case 17-36605 Document 88-2 Filed in TXSB on 05/16/18 Page 51 of 133



2602 Texas Avenue Texas City TX 77590 Office (409) 948-1012 Fax (409) 948-0839 www.blazerinspection.com

10	- 7	9	2018	_	7	
10	-a	/	2010	_	d	
		_				

READER SHEET

Page 2 of 2

SC#

CUSTOMER/CONTAC	T P	aragon			19.3		DATE 2/9/18
LOCATION/ADDRESS		Margh	r. T.	- k .			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
UNIT/SYSTEM T	w# a		- 6	2010	9 Tank# 138	+ #139	P.O. 2293-4693
C - CRACK CP SL - SLAG P -	- CLUSTE	R POROSITY Y/GAS POCKET	IP - INSU IF - INSU	FFICIEN FFICIEN	PPENETRATION EU TFUSION IU -	- EXTERNAL UNDERCUT INTERNAL UNDERCUT INTERNAL CONCAVITY	SU - SURFACE HL - IP DUE TO HIGH/LOW BT - BURN THROUGH
W. 2000 200 200 200 200 200 200 200 200 2		DENSITY				April 100 April	
WELD WELD	1-Z	2 to 4	ACC	REJ	LIST INDICATIONS	"X"	R ID - OTHER ID - REMARKS
)	Z-3	111					
	3-4						
	4-1			- 🗍			
W#5a	1-2		1			"E"	
	2.3		1			1	
	3-1						
W#66	1-2			- 🔲		"E"	
	2-3		1				
1 14 1 7	3-1	-				- L	
W#67	1.2					"E"	
	3-1			-			
W#68	1.5			-H		11K 21	
W-60	2.3						
	3-1						
42#51	1-2					1/E 11	
w 51	2-3		1				
	3-1		1		4		
W#80	1-1					"EII	
1	2-3		7			1	
L	3-1						
W#81	1-2					"E"	
	2-3					J	
	3-1				(1)		
W#79	1-2					*K"	
1	2-3		1			1	
V	3-1		1				
W# 98	1-2					PXII	
1	2-3	-	1)	
10151-8	3-1	-	1			1,510	
W#108	1-2			-	**************************************	"E"	
	2-3 3-1			H			
W#109	1-5		2	\dashv		"E"	34
w-107	2-3		1			1	
-	3-1		1				
W# ///	1-2					"E"	
	2-3		1			1	
_	13-10	VII	1			1	
(Jordany/	Sand	lm/			Mark De	Wise II	Pary DeVine
Signature of Customer's	s Represe	ntative certifies tim	ne and mate	rial corre	ct Name, Sig	gnature, and Level of Examin	er Assistant

Customer signature indicates satisfactory performance and agreement with time, materials, equipment and cost associated with this project. An invoice will be submitted reflecting the current rates on file.

Case 17-36605 Document 88-2 Filed in TXSB on 05/16/18 Page 53 of 133

Blazer Inspection, Inc. 2602 Texas Ave. Texas City, TX 77590 US 409-948-1012 jspruiell@blazerinspection.com www.blazerinspection.com



BILL TO Paragon Fab, Inc. 500 Main La Marque, Tx 77568 **INVOICE 2416**

DATE 02/13/2018 TERMS Net 30

DUE DATE 03/15/2018

PURCHASE ORDER 2293-4693

ACTIVITY	QTY	RATE	AMOUNT
Radiographic Testing:2 Person Radiography Crew ST @LaMarque, RT Report #10-2122018-1 through 10-2122018-3, 2/12/2018	8	92.00	736.00
Radiographic Testing:2 Person Radiography Crew OT	2	138.00	276.00
Radiographic Testing:Film:4.5x17 Inch Film	55	9.00	495.00
Miscellaneous Charges:Equipment Charge	1	50.00	50.00
Miscellaneous Charges:NDE Truck	1	65.00	65.00

TOTAL DUE \$1,622.00

ase 17-36605

Cument 88-2 Filed in TXSB on 05/16/18 Page 54 of 133
RADIOGRAPHIC EXAMINATION REPORT

2 60G	ment 88-
Texas C	City, TX 77590
Office (4	409) 948-1012
Fax (40)	9) 948-0839
www.bla	azerinspection.co

/	of	3
	_	or

INAPEC	TION INC										SC#	
CUSTOMER/CONTAC	T P	argg	on								DATE 2	112/18
LOCATION/ADDRESS		ma	-64	بالر م			4 100			79170179		0.75
UNIT/SYSTEM	w#	2283	3 -	ma	501/	- /	Pinhe ?	TK#138	× **	139	P.O. 22	193-4693
MATERIAL	CSA	CS	CS	CS	DCS	E	///-		L	da ledi	Source	Optional
THICKNESS	.375 ^A	1375	,375	,375	. D	E	Film			Ť		Source ☆ Location ☆
DIAMETER	8.6ª	18 B	-	_	D	E	NOVI	Sour	7		Film	
REINF. THICKNESS	.125A	,125		_	D ,125	E			FILM			Film
SFD	8.6	18 B	10.7	12.7	D 11.5	E	SWE/SWV	SWE/SW	v 🗆	SWE/	'swv	DWE/SWV
EXPOSURE TIME	A	-	1450	305	D	Е	D-41	& Sour	се ж	-34- 50	urce *	
IQI SIZE/MATERIAL	145 A	8min	2-0		D	E	□ptional Source ★ Location ☆					
	B	B	B	B	D =	E						Case 1
IQI LOCATION (S/F)	F A	F	7-0	F	Do	E						
SHIM THK & MAT'L	,375	.375	,375	.375	D	E	DWE/SWV	DWE/DW		DWE/	'FRM' 'DWV	
# OF EXPOSURES MARKERS: NBR OR	3	3	3	3	2	Ē						
SPACING	9	11	11.2	13.3	12.3							
SOURCE	40	kV	Ma	FOCA		SCREENS D14	The second second	FILM LO		Double	FILM PROC	
Co	NDE PRO	CEDURE		ACCEPTA	ANCE STAN	DARD	SURFAC	E CONDITION		Doddie	TEMP >	
X-Ray	R7	-30	0	AR	I 110	14		Smoot	4		AUTO	MANUAL
STAGE OF MANUFAC	TURE			ITERMEDIA	ATE	4	INAL	REPAIR	BE	FORE PWHT		AFTER PWHT
C - CRACK SL - SLAG T - TUNGSTEN	P - PORO HB - HOL	SITY/GAS	POCKET	IF	- INSUFFIC - INSUFFIC - EXCESS	IENT FUS		IU - INTE	ERNAL U RNAL UN RNAL CO		HL - IF	URFACE DUE TO HIGH/LOW URN THROUGH
WELD	- 111	VIEW	DENSI		ACC	REJ	LIST INDIC		1			ID - REMARKS
4114		-2	2 to	4			LIOT INDIC	DATIONO	"X"		ID - OTTIER	ID - INEWATING
		-3	1	1					1			
1 12 12 ==		3-)	+	+		H			1			
W# 105		-2	+	++		H			"×"			
		1-1	1	+	1	H						
W# 69R		-2	+		14	H			NE	ł,		
- 1	2	2-3							1			
	3	-4			4							
	4	-5			4				1		5.6	
	5	5-1	V	V					1			
						H			_			
						++			_			
									<u> </u>			
ADDITIONAL PA	GES 2	co	MMENTS:	10	-212		18-2 +	10-2	120	18-3		
# OF FILM AND SIZE	45	-1/x/	アツ			F	ILM BRAND/TYPE	fa D.	3		TOTAL # OF	WELDS
Date 7/	Customer					Per Diem		Report #		Unit #	-	No. on Job
0/12/18	7	ere.	ny			Yes	No é	10-212	2018-	1 12	/	2
Travel if Applicable	0 1	()_	<i>.</i>	/	Jines		lours:	-				Total Hrs
Hours:	7/1	liles Total:	NI	9 Ve	hicle	- N	Vorked	to /	(AM)	and	to	5 PM 10
Jun &	X	e Al	M/				M	ark Del	1:00	J	100.	y Deliso
Signature of Customer's	s Represer	ntative cert	tifies time a	and materia	al correct	-	N	ame, Signature, a	and Level	of Examiner	/	Assistant
Customer signature ind						ne, materi	ial, equipment and	costs associated	with this pr	roject. An invo	ice will be su	bmitted reflecting the

current rates on file.

Case 17-36605 Document 88-2 Filed in TXSB on 05/16/18 Page 56 of 23/2 20/8 - 7_



2602 Texas Avenue Texas City TX 77590 Office (409) 948-1012 Fax (409) 948-0839 www.blazerinspection.com

READER SHEET

Page 2 of 3

SC# CUSTOMER/CONTACT DATE LOCATION/ADDRESS UNIT/SYSTEM P.O. C - CRACK EU - EXTERNAL UNDERCUT CP - CLUSTER POROSITY IP - INSUFFICIENT PENETRATION SU - SURFACE SL - SLAG P - POROSITY/GAS POCKET IF - INSUFFICIENT FUSION IU - INTERNAL UNDERCUT HL - IP DUE TO HIGH/LOW BT - BURN THROUGH T - TUNGSTEN HB - HOLLOW BEAD **EP - EXCESSIVE PENETRATION** IC - INTERNAL CONCAVITY DENSITY WELDER ID - OTHER ID - REMARKS WELD VIEW PEN WIELD ACC LIST INDICATIONS "F 11 W#46 1-2 z-3 3-4 12#80 11×11 3-4 NE" W#11Z 1.2 3-1 W#56R 11 X 11 W#57R 2-3 2-3 3-1 12 3-1 12 2-3 11Ki 2-3 3-1 W 2-3 V 3-4 ×

Customer signature indicates satisfactory performance and agreement with time, materials, equipment and cost associated with this project. An invoice will be submitted reflecting the current rates on file.

Signature of Customer's Representative pertifies time and material correct

Name, Signature, and Level of Examiner

The test results reported herein by the inspection technician are valid at the time of inspection only. Blazer Inspection, Inc. is not responsible for any changes in the state of the equipment after the inspection is completed including but not limited to: final installation practices, mechanical controls, operations or utilization parameters, or any other change in the state of the equipment from its state at the time of the inspection; and, makes no assertion, finding, representation, guarantee or warranty concerning the possible effects upon the inspected equipment from such changes, or the state of such inspected equipment at any time after the inspection is completed.

Έ.

Case 17-36605 Document 88-2 Filed in TXSB on 05/16/18 Page 5870/ 333018 - 3



2602 Texas Avenue Texas City TX 77590 Office (409) 948-1012 Fax (409) 948-0839 www.blazerinspection.com

READER SHEET

SC# DATE CUSTOMER/CONTACT LOCATION/ADDRESS UNIT/SYSTEM CP - CLUSTER POROSITY C - CRACK EU - EXTERNAL UNDERCUT SU - SURFACE IP - INSUFFICIENT PENETRATION SL - SLAG P - POROSITY/GAS POCKET IF - INSUFFICIENT FUSION IU - INTERNAL UNDERCUT HL - IP DUE TO HIGH/LOW T - TUNGSTEN HB - HOLLOW BEAD **EP - EXCESSIVE PENETRATION** IC - INTERNAL CONCAVITY BT - BURN THROUGH DENSITY WELD VIEW ACC WELDER ID - OTHER ID - REMARKS PEN WIELD LIST INDICATIONS "X" - "E" W#73 A Representative certifies time and material correct

Customer signature indicates satisfactory performance and agreement with time, materials, equipment and cost associated with this project. An invoice will be submitted reflecting the current rates on file.

Case 17-36605 Document 88-2 Filed in TXSB on 05/16/18 Page 60 of 133

Blazer Inspection, Inc. 2602 Texas Ave. Texas City, TX 77590 US 409-948-1012 jspruiell@blazerinspection.com www.blazerinspection.com



BILL TO Paragon Fab, Inc. 500 Main La Marque, Tx 77568 **INVOICE 2417**

DATE 02/14/2018 TERMS Net 30

DUE DATE 03/16/2018

PURCHASE ORDER 2293-4701

ACTIVITY	QTY	RATE	AMOUNT
Radiographic Testing:2 Person Radiography Crew ST @LaMarque, RT Report #10-2132018-A, 2/13/2018	6	92.00	552.00
Radiographic Testing:Film:4.5x17 Inch Film	3	9.00	27.00
Miscellaneous Charges:Equipment Charge	1	50.00	50.00
Miscellaneous Charges:NDE Truck	1	65.00	65.00

TOTAL DUE \$694.00

ase 17-36605 Document 88-2 Filed in TXSB on 05/16/18 Page 61 of 133

Texas City, TX 77590
Office (409) 948-1012
Fay (409) 948-0920

Fax (409) 948-0839 www.blazerinspection.com

Page	1	of	1
-	-	_	-

INAPEG	TION INC													SC#	
CUSTOMER/CONTA	CT P	9-9	901	_										DATE 2	113/18
LOCATION/ADDRES				ul	T.x.	* 11			e militare				-1 17 1-9	,	, –, , ,
UNIT/SYSTEM	/n#	229	3-		9501	1/40	7	Pi	ping Th	V#.	1380	-#/_	39	P.O. 20	293-470,
MATERIAL	CS		В	С	D		E		1	+		Ш		Source	Optional
THICKNESS	.375 ^A	W -	В	С	D	1	Ε	<i>Einni</i>	Film		00n ==				Source & Location &
DIAMETER	24		3	С	D	971	E		Source		Source			Film	
REINF. THICKNESS	.125		3	С	D	E:	E '			1		FILM			Film
SFD	11.5	No.		С	D		E		SWE/SWV	1	SWE/SWV		SWE,	/SWV	DWE/SWV
EXPOSURE TIME	2 ^		3	С	D		E		Optional Source		* Sourc	e #	À Sα	ource *	
IQI SIZE/MATERIAL	B A			С	D		Ε	¥.	Source Location 🛪	1					
IQI LOCATION (S/F)	FA			С	D		E								
SHIM THK & MAT'L	.375 ^A			С	D		Е	Will service and the service a	Film DWE/SWV	1 /	FILM DWE/DWV		DWE,	FILM /DWV	
# OF EXPOSURES	1 ^			С	D		E								
MARKERS: NBR OR SPACING	12.5		3	С	D		E								
SOURCE	40 40	kV	Ма		OCAL SPO	9000		EENS 10	REAR				Double	FILM PROC	5
Co X-Ray	NDE PRO	= 30		ACC	EPTANCE PPI	STAN	IDAR	D	SURFA	CE CO	NDITION			TEMP 7	
STAGE OF MANUFAC					MEDIATE	,,		4FIN		REF			FORE PWH		AFTER PWHT
C - CRACK SL - SLAG	CP - CLU P - PORC	SITY/GA	S POCKE	T	IF - INS	UFFIC	IENT	FUSIC			IU - INTER	RNAL UN		HL - IF	SURFACE P DUE TO HIGH/LOW
T - TUNGSTEN WELD	HB - HOL	VIEW -	DENS PEN	SITY			RE.	T	RATION LIST INDI	CATIO	IC - INTER	RNAL CO			IURN THROUGH ID - REMARKS
W#412		-2	24		, ,,	4			LIST INDI	CATIO	INO	"X"		ID-OTHER	ID - REWARRS
						\dashv	\mathbb{H}								
W#73A	,	1-2	21	04		4						"X"			
-	4		r	V		\dashv	H					"X"			
					-	\dashv	H	+							
							T								
		_				4		_							
						+	H	+							
ADDITIONAL PA	CES		MMENTS	S: 1	Vone										
# OF FILM AND SIZE	- 4	-"~	17	i)	OUNC			FILI	M BRAND/TYPE	_	77			TOTAL # OF	
Date / Las	Customer					- 1	Per D	iem	1757	-	oort#		Unit #	0	No. on Job
Travel if Applicable	12	over.	ny	,	Airlines		Yes [Hou	No 2	10	0-21320	718-F		0	Total H
Hours:	V/A N	liles Total	N	IA	Vehicle	[-	Wor		to	9	AM)	and	to	3 PM 6
	X	M.	1/	/					~	2	11 >	.(1)	7	10	Dellis
Signature of Customer	s Represe	ntative ce	tifies time	and ma	aterial corr	ect	-			Name,	Signature, ar	nd Level of	of Examiner	Con	Assistant
Customer signature inc current rates on file.	licates satis	sfactory pe	erformano	e and a	greement	with tir	ne, m	naterial,	equipment and	costs a	associated w	ith this pr	oject. An invo	ice will be su	bmitted reflecting the

Case 17-36605 Document 88-2 Filed in TXSB on 05/16/18 Page 63 of 133

PARAGON FABRICATORS, INC. **500 MAIN STREET LAMARQUE, TEXAS 77568**

DAILY SHOOTING SHEET

DATE 12-Feb

PAGE _____1 OF

GRADE TO _____ **API 1104** D3 FILM 2293-4701 P.O.# CORVAL MAGELLAN PIPING TÄNKS#138 & #139 WELDER PARAGON MATERIAL JOB# WELD# | EXTENT | SIZE | THK. | STENCIL | JOINT | TYPE REMARKS W4-R | view 5-6 | 24" OD | .375" BUTT WELDCARBON STEEL DWG.#475-D-3915 PFI ISO#3915-E-E(REPAIR) 2293 2293 W73R view 2-3 24" OD .375" "X" BUTT WELDCARBON STEEL DWG.#475-D-3922 PFI ISO#3922C-A-A(REPAIR) W73R | view 3-4 | 24" OD | .375" "X" BUTT WELD ARBON STEEL DWG.#475-D-3922 PFI ISO#3922C-A-A(REPAIR) 2293 view 4-5 24" OD .375" "X" BUTT WELD ARBON STEE! DWG.#475-D-3922 PFI ISO#3922C-A-A(REPAIR) 2293 W73R W73R view 6-1 24" OD .375" "X" BUTT WELD ARBON STEEL DWG.#475-D-3922 PFI ISO#3922C-A-A(REPAIR) 2293

Case 17-36605 Document 88-2 Filed in TXSB on 05/16/18 Page 64 of 133

Blazer Inspection, Inc. 2602 Texas Ave. Texas City, TX 77590 US 409-948-1012 jspruiell@blazerinspection.com www.blazerinspection.com



BILL TO

Paragon Fab, Inc. 500 Main La Marque, Tx 77568

INVOICE 2468

DATE 02/26/2018 TERMS Net 30

DUE DATE 03/28/2018

PURCHASE ORDER

2293

ACTIVITY	QTY	RATE	AMOUNT
Radiographic Testing:2 Person Radiography Crew ST Corval Magellan Piping @ Corpus Christi, TX - RT Report #1749 - 2/22/2018	4	92.00	368.00
Miscellaneous Charges:Per Diem	2	135.00	270.00
Miscellaneous Charges:Mileage	255	0.90	229.50
Miscellaneous Charges:NDE Truck	1	-55.00	65.00
Radiographic Testing:2 Person Radiography Crew ST Corval Magellan Piping @ Corpus Christi - RT Report #1241 - 2/23/2018	8	92.00	736.00
Radiographic Testing:2 Person Radiography Crew OT	2	138.00	276.00
Radiographic Testing:Film:4.5x17 Inch Film Total of 5 film shot - 3 (Weld 103) film were re-shoots per Level III review and not billable	2	9.00	18.00
Miscellaneous Charges:Equipment Charge	1	50.00	50.00
Miscellaneous Charges:Per Diem	2	135.00	270.00
Miscellaneous Charges:NDE Truck	1	65.00	65.00
Radiographic Testing: 2 Person Radiography Crew OT Corval Magellan Piping @ Corpus Christi - RT Report #1097 - Saturday 2/24/2018	14	138.00	1,932.00
Radiographic Testing:Film:4.5x17 Inch Film Total of 38 Film Shot - Weld 93 view 2-3, Weld 92 all 3 views, Weld 2 all 6 views re-shoots per Level III review and not billable	28	9.00	252.00
Miscellaneous Charges:Equipment Charge	1	50.00	50.00
Miscellaneous Charges:Mileage	255	0.90	229.50
Miscellaneous Charges:NDE Truck	1	65.00	65.00

TOTAL DUE

\$4,876.00

Case 17-36605 Document 88-2 Filed in TXSB on 05/16/18 Page 66 of 132-1749

O AZEA

2602 Texas Avenue Texas City, TX 77590 Office (409) 948-1012 Fax (409) 948-0839 www.blazerinspection.com

RADIOGRAPHIC EXAMINATION REPORT

www.blazerinspection.com 7-7718 CUSTOMER/CONTACT Paragon C Magellan DATE orpus Christi,TX LOCATION/ADDRESS 2293 UNIT/SYSTEM 138 + 139 P.O. MATERIAL Optional Е THICKNESS В DIAMETER D REINF. THICKNESS SWE/SWV DWE/SWV SWE/SWV SWE/SWV C D E SFD В C D E **EXPOSURE TIME** Optional Location IQI SIZE/MATERIAL C D IQI LOCATION (S/F) В С D E SHIM THK & MAT'L DWE/SWV DWE/DWV DWE/DWV В C D Е # OF EXPOSURES MARKERS: NBR OR В C E SPACING SOURCE FOCAL SPOT SCREENS FRONT FILM LOADING FILM PROCESS: 83 ✓ Ir REAR Single Double TIME NDE PROCEDURE BJ-KT-300-Pou D Co ACCEPTANCE STANDARD SURFACE CONDITION TEMP X-Ray AUTO MANUAL STAGE OF MANUFACTURE INTERMEDIATE REPAIR BEFORE PWHT AFTER PWHT FINAL C - CRACK CP - CLUSTER POROSITY IP - INSUFFICIENT PENETRATION EU - EXTERNAL UNDERCUT SU - SURFACE P - POROSITY/GAS POCKET IF - INSUFFICIENT FUSION IU - INTERNAL UNDERCUT HL - IP DUE TO HIGH/LOW SL - SLAG IC - INTERNAL CONCAVITY **EP - EXCESSIVE PENETRATION** BT - BURN THROUGH T - TUNGSTEN HB - HOLLOW BEAD DENSITY WELDER ID - OTHER ID - REMARKS WELD VIEW ACC PEN WIELD RF.I LIST INDICATIONS ADDITIONAL PAGES COMMENTS # OF FILM AND SIZE FILM BRAND/TYPE TOTAL # OF WELDS Date 7-27-18 Per Diem Report # (Co and Yes 🔽 1749 No Travel if Applicable Airlines Hours: Miles Total: 25 Worked 6Pm Vehicle AM Signature of Customer's Representative certifies time and material correct Assistant

Signature of Customer's Representative certifies time and material correct

Name, Signature, and Level of Examiner

Assistant

Customer signature indicates satisfactory performance and agreement with time, material, equipment and costs associated with this project. An invoice will be submitted reflecting the current rates on file.

Case 17-36605 Document 88-2 Filed in TXSB on 05/16/18 Page 68 of 133

	2602 Texas Avenue
AZA	Texas City, TX 77590
5 7	Office (409) 948-1012
280	Fax (409) 948-0839
A STATE OF THE PARTY OF THE PAR	www.blazerinspection.
ASPECTION INC.	

RADIOGRAPHIC EXAMINATION REPORT

2 (O) X	2 6)		Office	City, TX 7759 (409) 948-10 (09) 948-0839	12					Page	of
INAPECT	TON. INC.				lazerinspection		m				SC#	*
					4.0							2 2 - 10
CUSTOMER/CONTAC	T to	ara	30	2 C	Ma	50	110	in			DATE	2-23-18
LOCATION/ADDRESS	C	Ort	US	Chr	risti,	T	X					
UNIT/SYSTEM	Cor	val		asel		12	143	Tank's 138.	+ 139		P.O.	2293
MATERIAL	015 A	015	3	С	D	E					Source	Optional Source
THICKNESS	375 A	375		С	D	Е		Film	× ==			
DIAMETER	318	1 8.7	25	С	D	Е		Salar (1	Source		Film	
REINF. THICKNESS	.125 A	. (25)	3	С	D	E				II M		Film
SFD	3018	18.62	3"	С	D	E		SWE/SWV	SWE/SWV		SWE/SWV	DWE/SWV
EXPOSURE TIME	6min	1 1/2m	1.	С	D	E		Optional Source	Source	Ť	* Source *	
IQI SIZE/MATERIAL	B ^	5	В	С	D	E	P	* Location #				1
IQI LOCATION (S/F)	FA	F	В	С	D	E			M			
SHIM THK & MAT'L	A	/	В	С	D	E	-	DWE/SWV	FILM DWE/DWV		DWE/DWV	
# OF EXPOSURES	2,	3	В	С	Ы			j		,		7
MARKERS: NBR OR SPACING	450	9,03	В	С	D	E						
SOURCE	83°Ci	kV	Ма		CAL SPOT	1 1	REEN		FILM LOAD Single		FILM PRO	OCESS: AS Ca
D Co	NDE PRO	OCEDUR	 F	ACCE	PTANCE STA		ARD	SURFACE CON			TEMP 5	
X-Ray	BI-FT	-300-1	2010		17-11			3			☐ AUT	
STAGE OF MANUFAC			W	INTERME				FINAL REP		BEFORE	Zidac Nasidiyasi	AFTER PWHT
C - CRACK SL - SLAG T - TUNGSTEN	P - PORC HB - HOL	DSITY/GA	S POCK		IP - INSUFF IF - INSUFF EP - EXCES	ICIE	NT FL		IU - INTER	RNAL UNDER NAL UNDERC NAL CONCA\	CUT HL-	SURFACE IP DUE TO HIGH/LOW BURN THROUGH
WELD		VIEW	DEN PEN	SITY	ACC		EJ	LIST INDICATION	us I	WE	LDER ID - OTHE	R ID - REMARKS
4-63			2109	2to 4	P	Ï	Ĭ	Elot motormo		X	2-3-18	
7 - 1-11	2		71-11	7411			7			-	7-3-18	
W-64		54	tiey	7+64		╁	╡┼	7		X	20.0	r.
W-103			2104	7600	3		5			K	1-31-18	
		.3				1-	4					
	-	3-1		- 1		╁	┽┼					
	-					1	=					
										-	STAND	BY MOST
						11					OF THE	DAP!!!
	-				 	╁┾	┽┼				JOHT GE	THE GOS TILL
	-+					ΙĖ]			3	50	1366
ADDITIONAL PA		C	OMMENT	S:			_				I	
# OF FILM AND SIZE	IXXI	7	5			In-	_i	FILM BRAND/TYPE AS AS Repo	D-3	lus	it#	OF WELDS
2:23-18		and	, N		Ta:		Diem	No 🗌	1741	Uni	12	No. on Job
Travel if Applicable Hours:	M/A N	Miles Tota	1: 2	5	Airlines Vehicle	×		Hours: Worked 6:3° A to		AM and	to	439 PM 101/2
* Much	hal	21	-6	our	this			Mike Grime	sand	le cv	F/L	430 PM TOBLYS

Signature of Customer's Representative certifies time and material correct

Name, Signature, and Level of Examiner

Customer signature indicates satisfactory performance and agreement with time, material, equipment and costs associated with this project. An invoice will be submitted reflecting the current rates on file.

Case 17-36605 Document 88-2 Filed in TXSB on 05/16/18 Page 69 of 133 # - 1097

2602 Texas Avenue Texas City, TX 77590

RADIOGRAPHIC EXAMINATION REPORT

Office (409) 948-1012 Fax (409) 948-0839 www.blazerinspection.com SC# 24-18 DATE CUSTOMER/CONTACT Magellan -990n LOCATION/ADDRESS isti - 138+139 PO 293 UNIT/SYSTEM X λ × CIS MATERIAL CIS C15 Optional Source ⋠ Location 322 1375 375 THICKNESS 121 70" DIAMETER 175 REINF. THICKNESS 175 175 DWE/SWV 12"E SWE/SWV SWE/SWV SWE/SWV 8" C 24" 9.5 SFD 34Z 10/2 3mi. EXPOSURE TIME 142 Source Optional Location B B IQI SIZE/MATERIAL IQI LOCATION (S/F) SHIM THK & MAT'L DWE/SWV DWE/DWV DWE/DWV 3 # OF EXPOSURES MARKERS: NBR OR 17.56 B 11.03 9.00 12.54 12.56 SPACING SCREENS FRONT O (O FILM LOADING FILM PROCESS: SOURCE Ci kV Ma **FOCAL SPOT** TIME 4min/ 3 · 10 X.1 Pad REAR- DIO Single Double ✓ Ir TEMP 67 SURFACE CONDITION ☐ Co NDE PROCEDURE ACCEPTANCE STANDARD welded BI-27-300-Revo 145 4PI-1104 AUTO **MANUAL** X-Ray FINAL REPAIR BEFORE PWHT AFTER PWHT INTERMEDIATE STAGE OF MANUFACTURE EU - EXTERNAL UNDERCUT SU - SURFACE CP - CLUSTER POROSITY IP - INSUFFICIENT PENETRATION C - CRACK HL - IP DUE TO HIGH/LOW IF - INSUFFICIENT FUSION IU - INTERNAL UNDERCUT SL - SLAG P - POROSITY/GAS POCKET BT - BURN THROUGH IC - INTERNAL CONCAVITY T - TUNGSTEN HB - HOLLOW BEAD **EP - EXCESSIVE PENETRATION** WELDER ID - OTHER ID - REMARKS WELD VIEW PEN WIELD LIST INDICATIONS 18" 1-2 Ztell 2+04 1 3.4 4-1 20 1 1-53 1-2 2.3 3.4 4.5 5-1 1 Ш 1711 36 -3-1 \Box 70 2-3 1 FOR 1.2 7-3 -3-1 ☐ ADDITIONAL PAGES COMMENTS: TOTAL # OF WELDS # OF FILM AND SIZE FILM BRAND/TYPE D-3 41/2 ×17 Per Diem Report # Unit # No. on Job Customer Contac Date 17 7-24-18 Michae 1097 Yes 💢 No 🗌 Travel if Applicable Airlines Hours: Worked 🕼 AM and Miles Total: Hours:

Signature of Customer's Representative certifies time and material correct

Vike Cuines -VII Assistant

Name, Signature, and Level of Examiner Customer signature indicates satisfactory performance and agreement with time, material, equipment and costs associated with this project. An invoice will be submitted reflecting the current rates on file.

Case 17-36605 Document 88-2 Filed in TXSB on 05/16/18 Page 70 of 133

- 1021



2602 Texas Avenue Texas City TX 77590 Office (409) 948-1012 Fax (409) 948-0839 www.blazerinspection.com

READER SHEET

 \supseteq of

SC# DATE Mgellan CUSTOMER/CONTACT 0 LOCATION/ADDRESS 7793 P.O. UNIT/SYSTEM 138 EU - EXTERNAL UNDERCUT C - CRACK IP - INSUFFICIENT PENETRATION SU - SURFACE CP - CLUSTER POROSITY HL - IP DUE TO HIGH/LOW SL - SLAG P - POROSITY/GAS POCKET IF - INSUFFICIENT FUSION IU - INTERNAL UNDERCUT BT - BURN THROUGH IC - INTERNAL CONCAVITY T - TUNGSTEN HB - HOLLOW BEAD **EP - EXCESSIVE PENETRATION** DENSITY WELDER ID - OTHER ID - REMARKS WELD PEN WIELD LIST INDICATIONS 2011 1-2 7+64 2100 T-3 3.4 / 4.5 1 5-1 70 " W-113 5-1 W-86 70" 4.5 1 0 1-2 1 2.3 / 3.4 6-1 1.5 3.4 5-6 1 6-1 \Box

Signature of Customer's Representative certifies time/and material correct

Mike Grines LVI / Lantrip. J

Name, Signature, and Level of Examiner

Assistant

Case 17-36605 Document 88-2 Filed in TXSB on 05/16/18 Page 71 of 133

Blazer Inspection, Inc. 2602 Texas Ave. Texas City, TX 77590 US 409-948-1012 jspruiell@blazerinspection.com www.blazerinspection.com



BILL TO Paragon Fab, Inc. 500 Main La Marque, Tx 77568

INVOICE 2489

DATE 03/05/2018 TERMS Net 30

DUE DATE 04/04/2018

PURCHASE ORDER 2293-4691

ACTIVITY	QTY	RATE	AMOUNT
Radiographic Testing:2 Person Radiography Crew OT @LaMarque, RT Report #1139, 3/3/2018	8	138.00	1,104.00
Radiographic Testing:Film:4.5x17 Inch Film	11	9.00	99.00
Miscellaneous Charges:Equipment Charge	1	50.00	50.00
Miscellaneous Charges:NDE Truck	1	65.00	65.00

TOTAL DUE \$1,318.00

Case 17-36605 Document 88-2 Filed in TXSB on 05/16/18 Page 72 of 133 #-113

2602 Texas Avenue Texas City, TX 77590 Office (409) 948-1012 Fax (409) 948-0839 www.blazerinspection.cc

RADIOGRAPHIC EXAMINATION REPORT

T.				Fax (4	09) 948-0839						Page —		
INSPEC	TION, INC	y		www.b	lazerinspection	on.com					SC#		
CUSTOMER/CONTAC	T L	1 42A(Gall	FAE	ζ						DATE 3-	-3-18	
LOCATION/ADDRESS	7,	1 1	10-01		77							0	
UNIT/SYSTEM		7_/_	(arqu	(. . ,							P.O. 720	33-469	/
MATERIAL	95	95	BC/S	С	D	E					Source	Optional Source	
THICKNESS	STD'	STL) ^C	D	E	Film	# F	—□= ¬				∦ ĕ = ¬
DIAMETER	18"	12"			D	E	Salar I	Sour			Film		
REINF. THICKNESS	.125	./25	./25	C	D	E	SWE/SWV	SWE/SW	FILM	SWE	/SWV -	DWE/SWV	Film
SFD	18.5	12.5	8.5	-71	Ы		3112/3114	U 12/ U 1	` Ц	3/			ᅳᅴ
EXPOSURE TIME	1:10-	4:15.		_	D	E	Optional Source ☆ Location ☆	Sour	ce 🕺	Å s∘	ource #		
IQI SIZE/MATERIAL	B	B	B B	С	D	E	Location						
IQI LOCATION (S/F)	F	F	F	С	D	E							
SHIM THK & MAT'L	/	1/	8/	-C	D	E	DWE/SWV	File DWE/DW		DWE/	Film DWV		
# OF EXPOSURES	5	3	B 3	С	D	E							
MARKERS: NBR OR SPACING	11.30	13.3	^B 9.03	С	D	E							
SOURCE	68°	kV	Ма		CAL SPOT	SCRE	ENS FRONTO/ FAD REAR O/			Double	FILM PROC	ESS: hin	
☐ Co	NDE PR	OCEDU		ACCE	PTANCE STA	_		CE CONDITION,	- > -		TEMP 72	20	
X-Ray	10	$T-3\alpha$	Kev.0		pi /104			HS NE	1Dt	<u>) </u>	AUTO		
C - CRACK	the same and the s	LICTED E	OROSIT	INTERME			FINAL [REPAIR		FORE PWH		AFTER PWH	
SL - SLAG T - TUNGSTEN	P - POR		AS POCK EAD	ET	IF - INSUFF	ICIENT		IU - INTE	RNAL UN	DERCUT	HL - IF	P DUE TO HIGH/L SURN THROUGH	ow
WELD		VIEW	DEN PEN	SITY WIELD		REJ	J LIST INDIC	CATIONS		WELDER	ID - OTHER	ID - REMARKS	
W-75	/	-2	2.2	2.7		\Box			W/S	N"			
	- 2	3-4	2.4	3.1		╁┼	+		++				
•	- 2	7-5	2.5	29			CAP Shadou)					
	4	5-1	2.4	3.2		IН	SlAg IN C	od E	1				
11-79		1-2	2.2	2.9	$\vdash \forall$	┞╫	+ -		w/s "	V"			
V- / /	- 1	7-3	2.7	3.3	<u> </u>				1	^			
		3-1	2.5	3.1					V	-			
1.1.2		12	21	3.0	$\vdash \vdash$	┞╫			W/s"	V "			
w 5		2-3	2.9	3.6	1	╁┼			173	<u> </u>			
		3-1	2.7	3.4		1 🗖				1			
									-				
ADDITIONAL PA		С	OMMENT	S:			EII M BRAND/TVB	- 1			TOTAL # O	E WELDS	
# OF FILM AND SIZE	2" X	/7" er Contac	: :t . / /			Per Di	FILM BRAND/TYPE	Report #	\mathcal{L}) 3 Unit #	TOTAL # O	No. on Job	
3-3-18			Mic	Mae		Yes [□ No □	10 10 10 10 € 15 15 15 15 15 15 15 15 15 15 15 15 15			0	2	
Travel if Applicable Hours:		Miles Tot	al:		Airlines Vehicle	H	Hours: Worked	to	AM	and	to	PM To	HIS LE
	,	1	- 1		1			1			1 .	1	
X Much	ul	/	1211	Th	y		DANIE	Kharle	\mathbb{Z}	\	OSKER L	Atrip	
Signature of Custome	r's Repre	sentative						ame, Signature,			n invoice will	Assistant	ecting

RT-BI-001

the current rates on file.

Case 17-36605 Document 88-2 Filed in TXSB on 05/16/18 Page 73 of 133

Blazer Inspection, Inc. 2602 Texas Ave. Texas City, TX 77590 US 409-948-1012 jspruiell@blazerinspection.com www.blazerinspection.com



BILL TO Paragon Fab, Inc. 500 Main La Marque, Tx 77568 **INVOICE 2490**

DATE 03/05/2018 TERMS Net 30

DUE DATE 04/04/2018

PURCHASE ORDER 2293-4691

ACTIVITY	QTY	RATE	AMOUNT
Ultrasonic Testing:Thickness Surveys or Inspections:2 Person UT Thickness Crew OT @LaMarque, UT Report #332018-1, 3/3/2018	8	161.25	1,290.00
Ultrasonic Testing:Thickness Surveys or Inspections:Ultrasonic Thickness Meter	1	80.00	80.00
Consumables:UT Materials:Ultragel Tube Tube	1	10.00	10.00
Miscellaneous Charges:NDE Truck	1	65.00	65.00

TOTAL DUE \$1,445.00

Case 17-36605 Document 88-2 Filed in TXSB on 05/16/18 Page 74 of 133

Texas City, TX 77590 Office ULTRASONIC EXAMINATION

Texas City, TX 77590 Office (409) 948-1012 Fax (409) 948-0839 www.blazerinspection.com

ULTRASONIC EXAMINATION RE	PORT
---------------------------	------

www.blazerinspection.com CUSTOMER/CONTACT LOCATION/ADDRESS UNIT/SYSTEM ITEM DESCRIPTION MATERIAL SIZE QUANTITY THICKNESS SURFACE CONDITION smooth PROCEDURE ACCEPTANCE STANDARD ITEM TEMP CAL BLOCK TEMP 800 STAGE OF INITIAL REPAIR COMMENTS: SURFACE PREPARATION MANUFACTURE FINAL smooth LONGITUDINAL OTHER TYPE OF COUPLANT SHEAR WAVE **EXAM** INSTRUMENT TRANSDUCER MFG: anametrics MFG: WEDGE ANGLE: mpus ELEMENT FREQ: 2.25 MHZ MODEL: MODEL: Epach XI 043 SINGLE MEAS. ANGLE: S/N: 70129609 S/N: 110855 SIZE: 1.0" DUAL DELAY: CALIBRATION BLOCK MATERIAL C/S FLAT CURVED COMMENTS INCLUDE ACCEPT/REJECT SKETCH ADDITIONAL PAGES 475D-3916E Thickness 2.).394 3.)397 4.)402 5.).411 6).395 7.).397 SENSITIVITY CAL INITIAL INTERM INTERM FINAL LEVEL TIME 7:45 X HIGH TEMP. NA CONSUMABLES: COUPLANT GAL TUBE Customer Contact Per Diem Report # Unit# No. on Job No / NA Yes Travel if/Applicable Airlines Hours: to 3: 00PM Hours: Miles Total Vehicle Worked (AM and ustomer's Representative certifies time and material correct Assistant

Customer signature indicates satisfactory performance & agreement with time, materials, equipment and cost associated with this project. An invoice will be submitted reflecting the current rates on file

UT-BI-001

Case 17-36605 Document 88-2 Filed in TXSB on 05/16/18 Page 75 of 133

Blazer Inspection, Inc. 2602 Texas Ave. Texas City, TX 77590 US 409-948-1012 jspruiell@blazerinspection.com www.blazerinspection.com



BILL TO Paragon Fab, Inc. 500 Main La Marque, Tx 77568

INVOICE 2508

DATE 03/06/2018 TERMS Net 30

DUE DATE 04/05/2018

PURCHASE ORDER 2293

ACTIVITY	QTY	RATE	AMOUNT
Radiographic Testing:2 Person Radiography Crew ST @LaMarque, RT Report #2054, 3/5/2018	8	92.00	736.00
Radiographic Testing:Film:4.5x17 Inch Film	32	9.00	288.00
Miscellaneous Charges:Equipment Charge	1	50.00	50.00
Miscellaneous Charges:NDE Truck	1	65.00	65.00

TOTAL DUE \$1,139.00

Case 17-36605 Document 88-2 Filed in TXSB on 05/16/18 Page 76 of 133 -2054

Nareo Tion, Inc

2602 Texas Avenue Texas City, TX 77590 Office (409) 948-1012 Fax (409) 948-0839 www.blazerinspection.com

RADIOGRAPHIC EXAMINATION REPORT

SC# Zragon 5-18 CUSTOMER/CONTACT DATE LOCATION/ADDRESS Ne 2293 UNIT/SYSTEM 3 P.O. C15 MATERIAL Optional Source THICKNESS STD 8.750 D 24" 17:7 DIAMETER 20 REINF. THICKNESS SWE/SWV DWE/SWV 8.750D SWE/SWV SWE/SWV 241 17.75 SED 18" 10 EXPOSURE TIME Source B B IQI SIZE/MATERIAL IQI LOCATION (S/F) SHIM THK & MAT'L FILM DWE/SWV DWE/DWV DWE/DWV 3 # OF EXPOSURES MARKERS: NBR OR 9030 12.56E 17.56 11.03 17.56 SPACING SOURCE FOCAL SPOT Ci kV Ma SCREENS FRONT FILM LOADING FILM PROCESS | ✓ Ir REAR . Single TIME DX. Double TEMP 70 SURFAGE CONDITION Co NDE PROCEDURE ACCEPTANCE STANDARD 109 BI-CT-300 REVO 4-26 AUTO **MANUAL** X-Ray REPAIR BEFORE PWHT INTERMEDIATE AFTER PWHT STAGE OF MANUFACTURE FINAL C - CRACK CP - CLUSTER POROSITY IP - INSUFFICIENT PENETRATION EU - EXTERNAL UNDERCUT SU - SURFACE SL - SLAG P - POROSITY/GAS POCKET IF - INSUFFICIENT FUSION IU - INTERNAL UNDERCUT HL - IP DUE TO HIGH/LOW T - TUNGSTEN HB - HOLLOW BEAD **EP - EXCESSIVE PENETRATION** IC - INTERNAL CONCAVITY BT - BURN THROUGH DENSITY VIEW PEN WIELD LIST INDICATIONS WELDER ID - OTHER ID - REMARKS WELD 1.2 Ztay Ztoc1 23 3.4 41 / 1.2 24 F11-3 2.3 3-4 4-5 .645 IN(0) 5-1 NF.645 INCORE Mication 1.2 X 12:1 2.3 -W-213 12 X 23 ADDITIONAL PAGES COMMENTS # OF FILM AND SIZE FILM BRAND/TYPE TOTAL # OF WELDS Unit # Per Diem No. on Job Date Yes No 🔀 Travel if Applicable Airlines Total Hrs Hours Miles Total: N/4 Hours: N/A AM Vehicle Worked § and Signature of Customer's Representative certifies time and material correct Name, Signature, and Level of Examiner Assistant Customer signature indicates satisfactory performance and agreement with time, material, equipment and costs associated with this project. An invoice will be submitted reflecting the

current rates on file.

Case 17-36605 Document 88-2 Filed in TXSB on 05/16/18 Page 78 of 133



2602 Texas Avenue Texas City TX 77590 Office (409) 948-1012 Fax (409) 948-0839 www.blazerinspection.com READER SHEET

SC#

Page Z of Z

CUSTOMER/CONTAC	TE	rae	gon				DATE 3-5-18
LOCATION/ADDRESS			ergi		/		•
UNIT/SYSTEM	CN	1PT	- 1	38	7 13	59	P.O. 2293
SL - SLAG P - F		W BEAD	SITY OCKET	IP - INSU	JFFICIEN JFFICIEN	IT PENETRATION EU - EXTE	RNAL UNDERCUT SU - SURFACE RNAL UNDERCUT HL - IP DUE TO HIGH/LOW RNAL CONCAVITY BT - BURN THROUGH
WELD	VIEW	DEN PEN	WIELD	ACC	REJ	LIST INDICATIONS	WELDER ID - OTHER ID - REMARKS
FW-66	1.5	2104				1711 CP INCORE	×
	2-3					1	
	3-1					7	7
FW-89	1.2				M	12" TOR/56g	2
	23	\vdash	-		H	1 CP FROM	
FW-88	1.5	\vdash			-	Zon	7
1 W 00	23		 -		H	1	Ĭ
	3.4			Ī	X	PORISIES	The state of the s
	4.5				X	Por/Sies	
	5-1			À			1 1321
W-110	1.2					117 NF :4925 6"	N MARKE
	2-3						
	3-1		1			TRINE .6985 /	1
		-		井	H		- A Transfer of the second
			-	H	H		
				H	H		
1/4				Ī			
7							
			-	닏	님		
				片	⊢∺	2010	
				片			
				H	H		
							2268
				片	4		
				片	片片		
				片	片		
				H	H		
							100 miles
						324	Tager and the second
Signature of Customer	s Represe	eritative c	ertifies tim	6 and ma	terial cor	Mike Grimes Name, Signature	3200 Leart Stant Assistant

Customer signature indicates satisfactory performance and agreement with time, materials, equipment and cost associated with this project. An invoice will be submitted reflecting the current rates on file.

Case 17-36605 Document 88-2 Filed in TXSB on 05/16/18 Page 79 of 133

Blazer Inspection, Inc. 2602 Texas Ave. Texas City, TX 77590 US 409-948-1012 jspruiell@blazerinspection.com www.blazerinspection.com



BILL TO Paragon Fab, Inc. 500 Main La Marque, Tx 77568 **INVOICE 2510**

DATE 03/07/2018 TERMS Net 30

DUE DATE 04/06/2018

PURCHASE ORDER 2293-4691

ACTIVITY	QTY	RATE	AMOUNT
Radiographic Testing:2 Person Radiography Crew ST @LaMarque, RT Report #1645, 3/6/2018	7	92.00	644.00
Radiographic Testing:Film:4.5x17 Inch Film	28	9.00	252.00
Miscellaneous Charges:Equipment Charge	1	50.00	50.00
Miscellaneous Charges:NDE Truck	1	65.00	65.00

TOTAL DUE \$1,011.00

Case 17-36605 Document 88-2 Filed in TXSB on 05/16/18 Page 80 of 133-1645

DI AZEA HAZEA HAZEAN HE 2602 Texas Avenue Texas City, TX 77590 Office (409) 948-1012 Fax (409) 948-0839 www.blazerinspection.com

RADIOGRAPHIC EXAMINATION REPORT

Page of Z

CUSTOMER/CONTACT PFL LOCATION/ADDRESS LA MAZOU = UNIT/SYSTEM MATERIAL CISA B C D E THICKNESS STDA B C D E DIAMETER 24"A B C D E REINF. THICKNESS — A B C D E	P.O. 293- 4691 Source Source Location *
UNIT/SYSTEM MATERIAL CISA B C D E THICKNESS STD B C D E DIAMETER 24"A B C D E	P.O. 2293-4691 Source Source Source Source Location *
UNIT/SYSTEM MATERIAL CISA B C D E THICKNESS STDA B C D E DIAMETER 24"IA B C D E	Source Source Source Succe Succe
THICKNESS STD B C D E DIAMETER 24" B C D E	Source Source Source Succe Succe
THICKNESS STD B C D E DIAMETER 24" B C D E	Source # Location #
DIAMETER 24"	Film
A B C D E	
	Film
SFD 12"A B C D E SWE/SWV SWE/SWV	SWE/SWV DWE/SWV
EXPOSURE TIME A B C D E DISTRICT Source	Source *
IQI SIZE/MATERIAL B A B C D E	
IQI LOCATION (S/F) A B C D E	
SHIM THK & MAT'L DWE/SWV DWE/SWV DWE/SWV	DWE/DWV
# OF EXPOSURES	1
SOURCE CI KV Ma FOCAL SPOT SCREENS FRONT .DOS FILM LOADING	FILM PROCESS:
Y Y Y NDE PROCEDURE ACCEPTANCE STANDARD SURFACE CONDITION X-Ray B1-12T-3\omega-1\omega_1\omega Surface Condition AS WELDED	Double TIME 4 H TEMP 6 9 AUTO MANUAL FORE PWHT AFTER PWHT
C - CRACK	NDERCUT SU - SURFACE DERCUT HL - IP DUE TO HIGH/LOW
WELD VIEW PEN WIELD ACC REJ LIST INDICATIONS	WELDER ID - OTHER ID - REMARKS
v·10 12 (x)(3)
8015-10-A-B Z:3	
4.5	
4.5 5.6	
9.5 5.6 6 4	
9-5 5-6 64 1.2	.7
9-5 5-6 64 1-2 717C-AA-B 2:3 3.4	.3
917C-AA-B 2:3 (X)	
9-5	.) 705.4
9-5 5-6 64 1-2 1-10 - AA-B 2:3 3.4 4.5	
9-5	
917C-AA-B 2:3 3.4 4.5 5.6 Poecs 174	
97.5	705-1
Y-S	TOTAL # OF WELDS
Y-S	TOTAL # OF WELDS Unit # No. on Job 2
Y-5	TOTAL # OF WELDS Unit # No. on Job 2 Total Hrs
Y-S	TOTAL # OF WELDS Unit # No. on Job

Customer signature indicates satisfactory performance and agreement with time, material, equipment and costs associated with this project. An invoice will be submitted reflecting the current rates on file.

- 1201



2602 Texas Avenue Texas City TX 77590 Office (409) 948-1012 Fax (409) 948-0839 www.blazerinspection.com

READER SHEET

CUSTOMER/CONTAC	T PI	= (DATE 3-6-18
LOCATION/ADDRESS			RQU) ~				
UNIT/SYSTEM								P.O.
SL - SLAG P - I	- CLUSTE POROSIT - HOLLO\	Y/GAS P	OCKET	IF - INSU	IFFICIEN	T FUSION IU - INTER	RNAL UNDERCUT NAL UNDERCUT NAL CONCAVITY	SU - SURFACE HL - IP DUE TO HIGH/LOW BT - BURN THROUGH
WELD	VIEW		WIELD	ACC	REJ	LIST INDICATIONS	WELDER	ID - OTHER ID - REMARKS
W-11	12					RESHOTEILA	(x)	
BOIS-CC-A	2.3			1		SOLUTEU ETM		
	34			1				
	4.5							
	5-6							
	6-1					Mas most Con		
LD-12	1.2			D'			(N)	
86015-C-C-A	2-3					SHADOW 1840		
	3-4			<u> </u>				
	4-5							
	5-6							
	6-1				- -			
				닏	ᆜ			
REPAIRS				닏ᆜ	ᆜ		(1)	
~83R	3-4					WORM HOLE POECSITY	(i)	
12998	4-5				井			
101	1.0			ᅡ井	님		Q)	
v-891	1.2			#	X	2 0 225 1	Q)	
712998	3-1			1	片	WERN HOLE POROSITY		
				┝┼┼	片			
		_		┝┼	H			
				╁	片			
				\vdash	片			
				╁	片			
				片	片			
· ·				╁	H			
				H	H			
				H	Ħ			
				H	Ħ			
					1			
				Ī	ΙĒ			
				ΙП	ΙП			

Customer signature indicates satisfactory performance and agreement with time, materials, equipment and cost associated with this project. An invoice will be submitted reflecting the current rates on file.

Signature of Customer's Representative certifies time and material correct

Case 17-36605 Document 88-2 Filed in TXSB on 05/16/18 Page 83 of 133

Blazer Inspection, Inc. 2602 Texas Ave. Texas City, TX 77590 US 409-948-1012 jspruiell@blazerinspection.com www.blazerinspection.com



BILL TO Paragon Fab, Inc. 500 Main La Marque, Tx 77568 **INVOICE 2515**

DATE 03/08/2018 TERMS Net 30

DUE DATE 04/07/2018

PURCHASE ORDER

2293-4691

ACTIVITY	QTY	RATE	AMOUNT
Radiographic Testing:2 Person Radiography Crew ST @LaMarque, RT Report #1526, 3/7/2018	7	92.00	644.00
Radiographic Testing:Film:4.5x17 Inch Film	8	9.00	72.00
Miscellaneous Charges:Equipment Charge	1	50.00	50.00
Miscellaneous Charges:NDE Truck	. 1	65.00	65.00

TOTAL DUE \$831.00

Case 17-36605 Document 88-2 Filed in TXSB on 05/16/18 Page 84 of 13\$\mathref{a}_{-1526}\$

AZE P

2602 Texas Avenue Texas City, TX 77590 Office (409) 948-1012 Fax (409) 948-0839 www.blazerinspection.com

RADIOGRAPHIC EXAMINATION REPORT

INSPEC	TION, INC.	ע		*******	Diazemis	rection i	COIII				SC#	19 1 11
CUSTOMER/CONTAC	OT Par	090	n			- 11					DATE 3 -	7-18
LOCATION/ADDRESS		\sim		e51	20							
UNIT/SYSTEM	- V	LLIN	To		W.F		н	JO	B#22	193	P.O.	ier Si
MATERIAL	05		В	С	D	à i	E				Source	Optional
THICKNESS	SCH!		В	С	D		E	Film		*	A l	Source 女 Location 女
DIAMETER	16		В	С	D		E		Source		Film	MEAT
REINF. THICKNESS	-125	4	В	С	D		E			Final		Film
SFD	16.12	11	В	С	D		E	SWE/SWV	SWE/SWV	SWI	E/SWV	DWE/SWV
EXPOSURE TIME	4.30	1	В	С	D		E	Optional Source	∯ Source	* * *	Source #	
IQI SIZE/MATERIAL	B		В	С	D		E	A Location A				
IQI LOCATION (S/F)	F		В	С	D		E		()h			
SHIM THK & MAT'L	NA		В	С	D		E	Film DWE/SWV	FILM DWE/DWV	DWI	FILM E/DWV	
# OF EXPOSURES	4		В	С	D		E	Acceptable Acceptable		1980		
MARKERS: NBR OR SPACING	12.50		В	С	D	1	E					
T Ir Co X-Ray STAGE OF MANUFAC C - CRACK SL - SLAG T - TUNGSTEN WELD 72	CP - CLU P - PORC HB - HOI	USTER FOSITY/GLOW B	POROSIT GAS POCI	INTERME Y	IP - INSI IF - INSI EP - EXI	UFFIC UFFICI CESSI	IENT IENT	FINAL PENETRATION	E CONDITION REPAIR EU - EXTE IU - INTER IC - INTER	BEFORE PWI ERNAL UNDERCUT RNAL UNDERCUT RNAL CONCAVITY WELDER	TEMP AUTO HT SU - SI HL - IP BT - BI	MANUAL AFTER PWHT URFACE DUE TO HIGH/LOW JRN THROUGH D - REMARKS
	4	- [\exists					
					L	++	H					_
						-	H	-				
						1						
				 	 	╬	H	+				
					-	+	H					
					-	╗	H					
ADDITIONAL PA	AGES	(COMMEN	TS:								
OF FILM AND SIZE	17"							FILM BRANDATYPE	77-3		TOTAL#9F	WELDS
Date	Custome	Contac	:t				er Die		Report #	Unit#	77	No. on Job
Travel if Applicable	///	Ke			Airlines	Y	es _	Hours:	1520	0 '	6	Total Hrs
Hours:		files Tot	al:	5	Vehicle	Ď		Worked	to 730	M and	to Z	30PM Total Hrs
Much Signature of Customer	s Represe	ontative :	certifies ti	me and ma	aterial corr			Ecike	Touls acls L	d Level of Examiner	extrin V	Assistant
							me, m	naterial, equipment and	costs associated	with this project. An	invoice will be	submitted reflecting the

current rates on file.

Case 17-36605 Document 88-2 Filed in TXSB on 05/16/18 Page 86 of 133

Blazer Inspection, Inc. 2602 Texas Ave. Texas City, TX 77590 US 409-948-1012 jspruiell@blazerinspection.com www.blazerinspection.com



BILL TO Paragon Fab, Inc. 500 Main La Marque, Tx 77568 **INVOICE 2516**

DATE 03/09/2018 TERMS Net 30

DUE DATE 04/08/2018

PURCHASE ORDER

2293-4639

ACTIVITY	QTY	RATE	AMOUNT
Radiographic Testing: 2 Person Radiography Crew ST @LaMarque, RT Report #1527, 3/8/2018	8	92.00	736.00
Radiographic Testing:2 Person Radiography Crew OT	3	138.00	414.00
Radiographic Testing:Film:4.5x17 Inch Film	34	9.00	306.00
Miscellaneous Charges:Equipment Charge	1	50.00	50.00
Miscellaneous Charges:NDE Truck	1	65.00	65.00

TOTAL DUE \$1,571.00

Case 17-36605 Document 88-2 Filed in TXSB on 05/16/18 Page 87 of 138-1527

2602 Texas Avenue Texas City, TX 77590 Office (409) 948-1012

RADIOGRAPHIC EXAMINATION REPORT

I.	DORRESS La Mar que, Texas C S															
INSPEC	TION. INC.)		www.bia	zennspecti	on.com						SC	#			
CUSTOMER/CONTAC	СТ	Para		,								DA	TE M	2006	8×	2015
LOCATION/ADDRESS	s /	~ M	900	- م	TOVOL	^						Tab	# 21	193	-46.30	7
UNIT/SYSTEM	STOMERICONTACT PATE PATE		140													
MATERIAL	CK	0/5B	0.15	C/S	D	Е		KI					11		Intional	TOR
THICKNESS	375	-375			D	Е		lm Pros	000m E		*	20	ource		Source ocation #	
DIAMETER	16"					E	(X) Die	rze	Sour			16	Film			
REINF. THICKNESS	.125	.125	.125			E		==		Film	ADMIN .				Fil	n
SFD	16"	18"	15	11.5	\mathcal{O}	E	SWE/SWV		SWE/SW			SWE/SWV			DWE/SWV	믜
EXPOSURE TIME	5:30	6:30			7.7	E	Source		∦ Source	· A	Ť	Source	* *			
IQI SIZE/MATERIAL	BWIR	BUYA	Bwin	e. B. wi	D E	E	& Location	A A			7					
IQI LOCATION (S/F)	F	F	F	F	Б		Myba					Ar				
SHIM THK & MAT'L	NA		1.1/	N/A	-	E		iln			/ Want	FILE DWE / DWV				
# OF EXPOSURES	8	10	1 7	4 Com	र्व	E	2,		22/2			,				
MARKERS: NBR OR SPACING	1-2-3	1-2-3	4.5-6	1-2-3	40	Е										
SOURCE	Ci			FOCA	AL SPOT	SCR	EENS FROM	IT - O				FIL	M PROC	ESS:		
DC Ir	68							R .00	Sing	jle	Doubl	e TIM	ME 5	min	J	
	100				ANCE STA	ANDAR	RD SL	JRFAC	E CONDITION			TE			r	
		T-300			IATE	Г	Vena		1'DEDAID	Прег	ODE D	\	_ AUTO		~	
		ICTED DO				- 1	^\						CII. C			
SL - SLAG	P - POR	DSITY/GAS	S POCKET	T IF	- INSUFF	ICIENT	FUSION		IU - INTE	RNAL UND	ERCUT	Γ	HL - IF	DUE TO	HIGH/LO	W
			DENSI	ITY	195 5					1						
WELD WELD		- 4	PEN	WIELD		RE	J LIST	INDIC	ATIONS	W II					IARKS	
W# 74 F		ا ها				H				1	DP-	100	EOU			
144 75	1	.2			1	ΙĦ	Shaday		rade	"X"	SEL	1614	a			
- V-11 .							Showar	110	Cauc	^	1	1017	-1			
		3-4														
		4-5.			1											
		5-6														
		1														
W#25	1									114"	SF 168	3448				
7	1	1-3									1					
		3-4			1											
						1	PER. M	ut	of Coole							
					1											
	. (0-7														
		7-1								-						
ADDITIONAL PA	AGES	CO	MMENTS	TIL	1727											
				• • •	12-0		EII M BRAND	TVDE				TO	TAL # O	EWELDS		
	5 x 1	711/1	13				4							VVLLD	,	
Date						Per D		US			Unit #			INo.	on Joh	
						l r										
Travel if Applicable	1-(1)			Δ	irlines	 			1307		1 0				Tota	l Hre
Hours:		files Total:	15		ehicle	X	Worked	73	0,	AM a	ind		to C	030	PM //	HRS
X/2							2-	1/1	Day	-			V		Tail	40
Signature of Customer	S Renress	entative cor	rtifies time	and mate	rial correct	_	CCI	K.C.	CA STATE OF	nd Lovel of	Evamir	or		JORY.	IAGI	UK

Customer signature indicates satisfactory performance and agreement with time, material, equipment and costs associated with this project. An invoice will be submitted reflecting the

current rates on file.

- 1222



2602 Texas Avenue Texas City TX 77590 Office (409) 948-1012 Fax (409) 948-0839 www.blazerinspection.com

READER SHEET

SC# DATE 03/08/18 CUSTOMER/CONTACT Paragon Job# 2893-4639 LOCATION/ADDRESS AMarque, Texas P.O. UNIT/SYSTEM EU - EXTERNAL UNDERCUT SU - SURFACE C - CRACK **CP - CLUSTER POROSITY** IP - INSUFFICIENT PENETRATION HL - IP DUE TO HIGH/LOW IF - INSUFFICIENT FUSION IU - INTERNAL UNDERCUT P - POROSITY/GAS POCKET SL - SLAG BT - BURN THROUGH **EP - EXCESSIVE PENETRATION** IC - INTERNAL CONCAVITY T - TUNGSTEN HB - HOLLOW BEAD DENSITY WELDER ID - OTHER ID - REMARKS PEN WIELD LIST INDICATIONS WELD VIEW ACC REJ SF 68448 "H" 1-2 4 in Code 26 2-3 П 34 Per. out of Code 7 SRET3 1-2 7 Cluster in Code 2-3 in Code PER 3-4 4-1 1-2 J# 70 1 "X" SPE I3 2-3 1 PER IN Code 7 3-4 4-1 7 SF48149 W# 82 1-2 1 PER .078 in Code 2-3. 3.4 П 4-1 SF48149 "H" E8#W 1-2 PER out of Code 2-3 -3-4 41

Customer signature indicates satisfactory performance and agreement with time, materials, equipment and cost associated with this project. An invoice will be submitted reflecting the current rates on file.

of Customer's Representative certifies time and material correct

Blazer Inspection, Inc.

2602 Texas Ave.
Texas City, TX 77590 US
409-948-1012
jspruiell@blazerinspection.com
www.blazerinspection.com



BILL TO

Paragon Fab, Inc. 500 Main La Marque, Tx 77568

INVOICE 2525

DATE 03/15/2018 **TERMS** Net 30

DUE DATE 04/14/2018

PURCHASE ORDER

2293

ACTIVITY	QTY	RATE	AMOUNT
Radiographic Testing:2 Person Radiography Crew ST @ La Marque Shop - RT Report #2062 - 3/9/2018	6	92.00	552.00
Radiographic Testing:Film:4.5x17 Inch Film	15	9.00	135.00
Miscellaneous Charges:Equipment Charge	1	50.00	50.00
Miscellaneous Charges:NDE Truck	1	65.00	65.00
Radiographic Testing:2 Person Radiography Crew ST @ La Marque Shop - RT Report #2058 - 3/12/2018	8	92.00	736.00
Radiographic Testing:Film:4.5x17 Inch Film	27	9.00	243.00
Miscellaneous Charges:Equipment Charge	1	50.00	50.00
Miscellaneous Charges:NDE Truck	1	65.00	65.00
Radiographic Testing: 2 Person Radiography Crew ST Crew #1 @ La Marque Shop - RT Report #1549 - 3/14/2018	5	92.00	460.00
Radiographic Testing:Film:4.5x17 Inch Film	13	9.00	117.00
Miscellaneous Charges:Equipment Charge	1	50.00	50.00
Miscellaneous Charges:NDE Truck	1	65.00	65.00
Radiographic Testing:2 Person Radiography Crew ST Crew #2 @ La Marque Shop - RT Report #1654, 1655, 1656 - 3/14/2018	6	92.00	552.00
Radiographic Testing:Film:4.5x17 Inch Film	27	9.00	243.00
Miscellaneous Charges:Equipment Charge	1	50.00	50.00
Miscellaneous Charges:NDE Truck	1	65.00	65.00

TOTAL DUE \$3,498.00

Case 17-36605 Document 88-2 Filed in TXSB on 05/16/18 Page 91 of 133 -2062

D Z E P

2602 Texas Avenue Texas City, TX 77590 Office (409) 948-1012 Fax (409) 948-0839 www.blazerinspection.com

RADIOGRAPHIC EXAMINATION REPORT

Page 1 of 1

						Š								
CUSTOMER/CONTAC	T T	bras	30V	1								DATE	39-18	
LOCATION/ADDRESS	· (a N	10,19	uc	TX			1.8	45			6		
UNIT/SYSTEM	CV	NP:	T-	138	1	39		F			14-1-1	P.O. 7	293	
MATERIAL	cisa	C15	0/5	c 4	150		Е	1011		- 11	*	Source	Optional Source	1XI
THICKNESS	.375A	.375	,375	c . 37	50		E	Film		-8	F F			* *
DIAMETER	18"	Ecin B	16"	c 12	, D	dyg	E	Saure	Source Course			Film		
REINF. THICKNESS	A	- / B	/	C	D		E			FILM				Film
SFD	185A	74118	16"				E _	SWE/SWV	SWE/SWV		SWE/S	swv	DWE/SWV	
EXPOSURE TIME	gmin	18m.	-7m	2 3	٦'^ D		Е	Optional Source	Source	e 🎢	Å Sou	rce 🔻		
IQI SIZE/MATERIAL	BA	13 B	3		5 D		E	A Location A						
IQI LOCATION (S/F)	FA	F	F	c F	D		E		()h	/				
SHIM THK & MAT'L	A	B	/	c /	_ D		Е	Film DWE/SWV	FILM DWB/DWV		DWE/I	FILM		
# OF EXPOSURES	4 A	6	4	c 3	D		E	22/2	5.5/2		2			
MARKERS: NBR OR SPACING	17.56A	12.51B	17.50	Cill	3 ^D		Е	2 1	-				100	0.2
SOURCE Co X-Ray		kV OCEDURE		ACCE	PTANCE	11		REAR, D	E CONDITION		Double	FILM PROC TIME S TEMP &	ESS: ASC	
STAGE OF MANUFAC		30,		NTERME		(11	9 4	FINAL	REPAIR		FORE PWHT		AFTER PWH	
C - CRACK SL - SLAG	CP - CLU	SITY/GAS	ROSITY S POCKE		IP - INS	UFFIC	CIENT	PENETRATION FUSION ENETRATION	·	ERNAL UN	NDERCUT DERCUT	HL - IP	URFACE DUE TO HIGH/LI URN THROUGH	
WELD		VIEW	DENS	WIELD	AC	С	REJ	LIST INDIC	ATIONS		WELDER	O - OTHER I	D - REMARKS	
4-46	1			Ztace	- 1.0	1	- []	18"	7110110	NI/	H			
		-3	1			1	- 🔲			1				
		54	\perp	\perp		1	-	3 8 6						
		(-1	-				. -	T - 1		-	WT/			
W-GIEC	- (7	1	_			H	24" ZG"	2.,	4	PV		2	
WE STORE		2		_			H	249		N	1-1	EILET		
W 95	1	3	1			1	Ħ	1 . 11						
	3	54					X	IP/1709						
	L	1.5					X	POL			180	6		
		5-6				//								
	C	10				1			83.4	-				
41-83R		En-		1			1	16"		X		1		51
	<	-3				1		2-30nly		X				
	-					- 43				'X				
ADDITIONAL PA	GES	CO	MMENT	S:						/-	A STATE			
# OF FILM AND SIZE	4	124	17	^	5)			FILM BRAND/TYPE	Jale I)3		TOTAL # OF	WELDS	
39-18	Customer	Contact	N	Tor			Per Di	iem No 🖄	Report #	r	Unit#		No. on Job	
Travel if Applicable Hours:		liles Total	11	IA	Airlines		7	Hours:) In-		and	to	FPM T9	Hrs Hrs
	/				1 4 0 / 11010			Mile F	Onl	14	F-4	Pale	3 DC	1211
Signature of Customer	s Represe	ntative ce	rtifies tim	e and ma	aterial co	rrect	_	N	ame, Signature, ar	nd Level o	of Examiner	100-0	Assistant	150
			2000 Sept 2000	310000										

Customer signature indicates satisfactory performance and agreement with time, material, equipment and costs associated with this project. An invoice will be submitted reflecting the current rates on file.

Case 17-36605 Document 88-2 Filed in TXSB on 05/16/18 Page 93 of 133 -2058

A Z E A

2602 Texas Avenue Texas City, TX 77590 Office (409) 948-1012 Fax (409) 948-0839 www.blazerinspection.com

RADIOGRAPHIC EXAMINATION REPORT Page of

INSPEC	TION INC			WWW.Die	zemspecu	on.com				SC#	l Virgin
CUSTOMER/CONTAC	CT /	Por ac	500			9-5	PER 11			DATE Z	17-18
LOCATION/ADDRES	s /	a Mi	0	e,	X		Falls .			1 1 2	1010
UNIT/SYSTEM	CA	1PT	.5	341	39	-01	and the later			P.O. 77	93
MATERIAL	NIC	APICE	CIC		D	E			11		x
THICKNESS	375	A 375	3,375	:	D	E	to Live Head of		8	Source	Optional Source 女 Location 女
DIAMETER	79	A 16 ' E		;	D	E		Source		Film	
REINF. THICKNESS	4	A E		;	D	E	Ostare.				Film
	74"	A B	17.6	;	D	E	SWE/SWV	SWE/SWV	FILM	SWE/SWV	DWE/SWV
SFD	29	1		_	D	E					
EXPOSURE TIME	7m.		Con	_			Optional Source 禁 Location 禁	Source	e 🕺	Source *	
IQI SIZE/MATERIAL	B	B	5		D	E			+		
IQI LOCATION (S/F)	\$	AF	F		D	E					
SHIM THK & MAT'L	/	Á		;	D	E	Film DWE/SWV	Film DWB/DWV		Film DWE/DWV	
# OF EXPOSURES	6	A 4 E	3		D	E				1	
MARKERS: NBR OR SPACING	17.50	A 17.56	11.05		D	Е					
SOURCE	Ci	kV	Ма	1	AL SPOT	SCRE				FILM PROCE	ss: Agga
Ir	70		<u> </u>	_	x. []	180	110 110 01	-	le D	ouble TIME	
Co X-Ray		T-300 4		ACCEP	TANCE ST	ANDARI	SURFACE	S Weld	rd	TEMP 78	MANUAL
STAGE OF MANUFA		1 300 4		TERME	DIATE		TFINAL [REPAIR		E PWHT	AFTER PWHT
C - CRACK	Marie Commerce	USTER PO				ICIENT	PENETRATION	11	ERNAL UNDE		[K
SL - SLAG T - TUNGSTEN	P - POF	ROSITY/GA	S POCKET	Γ Ι	F - INSUFF	ICIENT		IU - INTE	RNAL UNDER	CUT HL - IP I	OUE TO HIGH/LOW RN THROUGH
WELD		VIEW	DENSI PEN	WIELD	ACC	REJ	LIST INDIC	ATIONS	w	ELDER ID - OTHER ID	- REMARKS
W- 45R			Sten -	7+64			COF I	1CODE	M		
u-1011		4.5	1	1		1 H	CUST FOR	THOO			
1011	+	7.3			7	11					
		3.4									
		4.5									
		5-6			4	44					
1 . 21		6-1	1			4+	- 1.1		1		
2. 51		2.3		1					T		
		34			1						
		41			1	1			1		
W27		1. 2							N		
Li.		2.3									
		3-1							1		
ADDITIONAL P.		CC	DMMENTS	:			ΑΑ	Δ.			
# OF FILM AND SIZE	4	1/7X	17	6	(50		FILM BRAND/TYPE	sta D	1-3	TOTAL # OF	WELDS 2
Date -17-18	Custom	er Contact				Per Di Yes [iem No 🔀	Report#	-8 U	nit#	No. on Job
Travel if Applicable		NEW STATE OF THE S	14	Δ	Airlines		Hours: (1	9000		Total Ars
Hours:		Miles Total	: M	A	Vehicle		Worked 4PM	to	AM and	to	17 PM
800	6						(3)h.	Clair	nest VA	/Lant	cip. J
Signature of Custome	r's Renre	sentative ce	ertifies time	and mat	erial correc		Na Na	me, Signature, a	nd Level of Ex		Assistant
							material, equipment and				

current rates on file.

Case 17-36605 Document 88-2 Filed in TXSB on 05/16/18 Page 95 of 133

- 1030



2602 Texas Avenue Texas City TX 77590 Office (409) 948-1012 Fax (409) 948-0839 www.blazerinspection.com

READER SHEET

Page of C

DATE CUSTOMER/CONTACT LOCATION/ADDRESS UNIT/SYSTEM P.O. SU - SURFACE C - CRACK CP - CLUSTER POROSITY IP - INSUFFICIENT PENETRATION EU - EXTERNAL UNDERCUT HL - IP DUE TO HIGH/LOW IU - INTERNAL UNDERCUT SL - SLAG P - POROSITY/GAS POCKET IF - INSUFFICIENT FUSION BT - BURN THROUGH T - TUNGSTEN HB - HOLLOW BEAD **EP - EXCESSIVE PENETRATION** IC - INTERNAL CONCAVITY LIST INDICATIONS WELDER ID - OTHER ID - REMARKS WELD VIEW PEN WIELD 30 Ztel 7+cc1 V 54 4-1

Signature of Customer's Representative certifies time and material correct

Name, Signature, and Level of Examiner

Assistan

Case 17-36605 Document 88-2 Filed in TXSB on 05/16/18 Page 96 of 13#2-1549

NATE OF THE PARTY
2602 Texas Avenue Texas City, TX 77590 Office (409) 948-1012 Fax (409) 948-0839 www.blazerinspection.com

RADIOGRAPHIC EXAMINATION REPORT

Page

INSPECT	ION. ING.				azerinspectio		om					SC#		
CUSTOMER/CONTAC	T O	AP I	A60	14.)				1.00				DATE 42	14.18	_
LOCATION/ADDRESS					To									_
UNIT/SYSTEM	97.11	1	1 4000			1					1.36.7	P.O.	1 0 m 2 2 2 1	_
MATERIAL	0/5		3	С	D	Е					W 1	Source	Optional	7
THICKNESS	40^		3	С	D	Е		Film	11000 E		*	$\overline{\mathbb{A}}$	Source # Location #	<u> </u>
DIAMETER	30 ^			С	D	Е	(Saurze	Source			Film		
REINF. THICKNESS	118			С	D	Е	•			Film			Film	7
SFD	305			С	D	Е		SWE/SWV	SWE/SWV		SWE/	/swv	DWE/SWV [긕
EXPOSURE TIME	A		3	С	D	Е		□ptional Source 今 Location か	* Sourc	e #	Å s∘	urce *		1
IQI SIZE/MATERIAL	BA			С	D	Е	1	* Location *						1
IQI LOCATION (S/F)	F			С	D	E							Ē	
SHIM THK & MAT'L	NIA			С	D	E	,	DWE/SWV	FILM DWE/DWV		DWE/	FILM DWV	46	
# OF EXPOSURES	A	'	В	C	D	E								
MARKERS: NBR OR SPACING	1346	1265		С	D	Ε								
SOURCE r Co X-Ray	1800	kV CEDURI	Ма	110	CAL SPOT	L	REE	REAR • 6	FILM LOADING CE CONDITION	le _	Double	FILM PROC TIME TEMP		
STAGE OF MANUFAC	CTURE			INTERME				FINAL [REPAIR	10 10 1000000	ORE PWH		AFTER PWHT	_
C - CRACK SL - SLAG T - TUNGSTEN			S POCKE	T	IF - INSUFFI	CIE	NTF	PENETRATION FUSION NETRATION		ERNAL UN RNAL UNE RNAL CON	DERCUT	HL - IF	SURFACE P DUE TO HIGH/LOW SURN THROUGH	
WELD		VIEW	DENS PEN		ACC		REJ	LIST INDIC	CATIONS		WELDER	ID - OTHER	ID - REMARKS	
CE 68446	1	3				H	+				-X	112		_
W 24	- 1	2.3			7	H	┪							_
	3	3-4			E	Į		POS WI	5 coll					_
	6	1.5				H	+			-				_
4	7	2-7				t								_
	-	7-1										/		_
719302						H	_					1.10	1976	_
WIORF	•	2.2				+	+	SWEF W	seem	1	2	10	334	-
		2.11				H	┪			 	- 1			_
	- 6	1.5				Ιī		UC LALIT	Corcho.		-			_
V 100	. 4	5-6												
	6	5-1			1			6			y			_
ADDITIONAL PA	AGES	C	OMMENT	S:										_
# OF FILM AND SIZE	100	17						FILM BRAND/TYPE	D3			TOTAL # O		_
3-14-18	Custome	r Contact				Pe Ye:	r Die s	M No No	Report #		Unit#		No. on Job	
Travel if Applicable		Ailes T-1	1.	- 1	Airlines	H		Hours:	200	ΔΜ -	and	to d	Z PM Total H	-
Hours:	1	Miles Tota			Vehicle			Worked	to /	AM	and		(Ade	_
Signature of Customer	's Represe	entative co	ertifies tim	e and mat	terial correct	_		N	ame, Signature, a	nd Level o		1-)1	Assistant	_

Customer signature indicates satisfactory performance and agreement with time, material, equipment and costs associated with this project. An invoice will be submitted reflecting the current rates on file.

RT-BI-001

Case 17-36605 Document 88-2 Filed in TXSB on 05/16/18 Page 98 of 133 -1654

2602 Texas Avenue Texas City, TX 77590 Office (409) 948-1012 Fax (409) 948-0839

RADIOGRAPHIC EXAMINATION REPORT

Page www.blazerinspection.com SC# PFI DATE 3-14-18 CUSTOMER/CONTACT LOCATION/ADDRESS LA MAIZOUE 3916F 4 sol 2293 UNIT/SYSTEM SF 68446 P.O. cls MATERIAL cls CIS Е .375 ^f THICKNESS 375 375 24"C 18" D DIAMETER 30 D Е REINF. THICKNESS SWE/SWV SWE/SWV DWE/SWV Ε SWE/SWV 14.5B Г SFD 18 11.5 Е 10m458 20553 **EXPOSURE TIME** Optional Source IQI SIZE/MATERIAL B B B IQI LOCATION (S/F) D E SHIM THK & MAT'L DWE/SWV DWE/DWV DWE/DWV Ε 182 # OF EXPOSURES 3 MARKERS: NBR OR D F SPACING FOCAL SPOT FILM PROCESS SOURCE SCREENS FRONT, OUS FILM LOADING Ci kV TIME 4n 45 11.x01. REAR .005 **Single** Double √ Ir TEMP 69° Co ACCEPTANCE STANDARD SURFACE CONDITION NDE PROCEDURE AS WELDED AUTO B1-RT-300 REV D APHIDH MANUAL X-Ray INTERMEDIATE FINAL REPAIR BEFORE PWHT AFTER PWHT STAGE OF MANUFACTURE CP - CLUSTER POROSITY EU - EXTERNAL UNDERCUT SU - SURFACE IP - INSUFFICIENT PENETRATION C - CRACK IU - INTERNAL UNDERCUT HL - IP DUE TO HIGH/LOW P - POROSITY/GAS POCKET IF - INSUFFICIENT FUSION SL - SLAG BT - BURN THROUGH **EP - EXCESSIVE PENETRATION** IC - INTERNAL CONCAVITY T - TUNGSTEN HB - HOLLOW BEAD DENSITY WELDER ID - OTHER ID - REMARKS ACC RF.I LIST INDICATIONS WELD VIEW PEN WIELD 20-40 V 1.2 RIN 10-14 2.3 V 34 4-5 5-4 67 7-8 6-1 RIN 1.2 2.3 3-4 4-5 56 67 78 1 1 8-1 COMMENTS W ADDITIONAL PAGES TOTAL # OF WELDS FILM BRAND/TYPE # OF FILM AND SIZE 4.5 217 17 ALFA No. on Job Z Customer Contact Per Diem Unit # Date 3-14-18 Yes No.X 11 Travel if Applicable Total Hrs Airlines Hours: PM Vehicle Worked Miles Total Hours MOSIAA TAYLOR

Customer signature indicates satisfactory performance and agreement with time, material, equipment and costs associated with this project. An invoice will be submitted reflecting the

Name, Signature, and Level of Examiner

Assistant

current rates on file

Signature of Customer's Representative certifies time and material correct

Case 17-36605 Document 88-2 Filed in TXSB on 05/16/18 Page 100 of 13\(\beta_{-1655} \)

2602 Texas Avenue Texas City, TX 77590 Office (409) 948-1012 Fax (409) 948-0839

RADIOGRAPHIC EXAMINATION REPORT

Page

www.blazerinspection.com SC# 3-14-18 CUSTOMER/CONTACT DATE LOCATION/ADDRESS LA MAZQUE 3915E -E 2293 UNIT/SYSTEM 783M59 P.O. Jos# C MATERIAL cls Optional С 375 THICKNESS В C D 24" DIAMETER В C D REINF. THICKNESS DWE/SWV SWE/SWV SWE/SWV SWE/SWV 11.5 SFD C D E В EXPOSURE TIME Zn555 Source Optiona В C D E IQI SIZE/MATERIAL B В C IQI LOCATION (S/F) В C D F SHIM THK & MAT'L DWE/DWV DWE/SWV DWE/DWV В C D E # OF EXPOSURES D C MARKERS: NBR OR В SPACING REAR .005 SOURCE Ма **FOCAL SPOT** SCREENS FILM LOADING FILM PROCESS: 45 11.201. ✓ Single TIME X Ir Double BI-LT-300 RED D Co ACCEPTANCE STANDARD SURFACE CONDITION TEMP WELDED PG11-10A AUTO MANUAL X-Ray AFTER PWHT INTERMEDIATE REPAIR BEFORE PWHT STAGE OF MANUFACTURE FINAL IP - INSUFFICIENT PENETRATION EU - EXTERNAL UNDERCUT SU - SURFACE C - CRACK CP - CLUSTER POROSITY P - POROSITY/GAS POCKET IF - INSUFFICIENT FUSION IU - INTERNAL UNDERCUT HL - IP DUE TO HIGH/LOW SL - SLAG **EP - EXCESSIVE PENETRATION** IC - INTERNAL CONCAVITY BT - BURN THROUGH T - TUNGSTEN HB - HOLLOW BEAD DENSITY LIST INDICATIONS WELDER ID - OTHER ID - REMARKS WELD VIEW PEN | WIELD ACC REJ 1-2 2,0-40 W-L 2.3 3-4 45 5-6 4.8 2.0 ADDITIONAL PAGES COMMENTS: FILM BRAND/TYPE TOTAL # OF WELDS FILM AND SIZE ALFA 4.5 ×17 Per Diem Unit # Customer Contact No. on Job 3-14-18 1655 Yes No X Travel if Applicable Total Hrs Airlines Hours: PM Hours: Miles Total: Vehicle Worked AM and ADRON WETELLI Signature of Customer's Representative certifies time and material correct Name, Signature, and Level of Examiner Assistant

Customer signal we indicates satisfactory performance and agreement with time, material, equipment and costs associated with this project. An invoice will be submitted reflecting the current rates on file

Case 17-36605 Document 88-2 Filed in TXSB on 05/16/18 Page 102 of 133-1656

A ZE P

2602 Texas Avenue Texas City, TX 77590 Office (409) 948-1012 Fax (409) 948-0839 www.blazerinspection.com

RADIOGRAPHIC EXAMINATION REPORT

www.blazerinspection.com SC# CUSTOMER/CONTACT 3-14-18 LOCATION/ADDRESS LA MARQUE 3917 C-B-B-C P.O. JOS # 2293 UNIT/SYSTEM 5816049 cls MATERIAL В E 375A THICKNESS В C D 301 DIAMETER REINF. THICKNESS SWE/SWV SWE/SWV SWE/SWV DWE/SWV С D Е В 14.5 SFD X В C ח F **EXPOSURE TIME** Source Optional Source IQI SIZE/MATERIAL B n IQI LOCATION (S/F) С D E SHIM THK & MAT'L DWE/SWV DWE/DWV DWE/DWV D E # OF EXPOSURES 3 n MARKERS: NBR OR В C SPACING SOURCE FOCAL SPOT SCREENS FRONT , UDS FILM LOADING FILM PROCESS: kV 45 TIME 4MIS DK+ 10×-11 REAR . DOS Single Double Со NDE PROCEDURE ACCEPTANCE STANDARD SURFACE CONDITION TEMP 69° B1-RI-300-13×0 401-119A MANUAL AS WELDED AUTO X-Ray INTERMEDIATE REPAIR BEFORE PWHT AFTER PWHT STAGE OF MANUFACTURE FINAL EU - EXTERNAL UNDERCUT SU - SURFACE C - CRACK CP - CLUSTER POROSITY IP - INSUFFICIENT PENETRATION IU - INTERNAL UNDERCUT HL - IP DUE TO HIGH/LOW P - POROSITY/GAS POCKET IF - INSUFFICIENT FUSION SL - SLAG BT - BURN THROUGH EP - EXCESSIVE PENETRATION IC - INTERNAL CONCAVITY T - TUNGSTEN HB - HOLLOW BEAD DENSITY LIST INDICATIONS WELDER ID - OTHER ID - REMARKS WELD VIEW PEN WIELD ACC RF.I W-25R 4-5 -4.0 (x)2.0 2-3 U-25R 3-4 2.0-4.0 ADDITIONAL PAGES COMMENTS TOTAL # OF WELDS FILM BRAND/TYPE 4.5×17 ADFA Per Diem No. on Job Date 1656 -14-18 Yes No X Travel if Applicable Total Hrs Airlines Hours Vehicle to PM Hours: Miles Total: KURI LYLT Signature of Gustomer's Representative certifies time and material correct Name, Signature, and Level of Examiner Assistant Customer signature indicates satisfactory performance and agreement with time, material, equipment and costs associated with this project. An invoice will be submitted reflecting the

current rates on file

Blazer Inspection, Inc.

2602 Texas Ave.
Texas City, TX 77590 US
409-948-1012
jspruiell@blazerinspection.com
www.blazerinspection.com



BILL TO

Paragon Fab, Inc. 500 Main La Marque, Tx 77568

INVOICE 2531

DATE 03/15/2018 **TERMS** Net 30

DUE DATE 04/14/2018

PURCHASE ORDER

2293-4735

ACTIVITY	QTY	RATE	AMOUNT
Project Personnel:Personnel:QA/QC Technician ST @ La Marque Shop 3/8/18	2	75.00	150.00
Project Personnel:Personnel:QA/QC Technician ST @ La Marque Shop 3/9/18	8	75.00	600.00
Project Personnel:Personnel:QA/QC Technician OT @ La Marque Shop 3/9/18	2	112.50	225.00
Project Personnel:Personnel:QA/QC Technician ST @ La Marque Shop 3/12/18	8	75.00	600.00
Project Personnel:Personnel:QA/QC Technician OT @ La Marque Shop 3/12/18	2	112.50	225.00
Project Personnel:Personnel:QA/QC Technician ST @ La Marque Shop 3/13/18	8	75.00	600.00
Project Personnel:Personnel:QA/QC Technician OT @ La Marque Shop 3/13/18	2.50	112.50	281.25
Project Personnel:Personnel:QA/QC Technician ST @ La Marque Shop 3/14/18	3	75.00	225.00
Project Personnel:Personnel:QA/QC Technician ST @ La Marque Shop 3/15/18	3	75.00	225.00

TOTAL DUE \$3,131.25

Case 17-36605 Document 88-2 Filed in TXSB on 05/16/18 Page 105 of 133

A PARTIES INSPECTI	Z E A ON. INC.	T C F	602 Texas Ave Texas City, TX 77590 Office (409) 948-1012 Tax (409) 948-0839 Tax (409) 948-0839	2			Page) of _	1
CUSTOMER/CONTAC	T PARD	GON	/ R.O	LOOPE	= P		DATE	MARCH	2018
LOCATION/ADDRESS		MAIN		AMARC	RUET	x 77	568	· IAI	
UNIT/SYSTEM		NA						3-473	5
	100			10					
- QA /	QC	CON	SULT	INC					
-									
					¥				
-									
7									
							5 +		
							·;		
Date MAR 2018	Customer Contact		Per Diem Yes	No Repo	nt# /_	Unit#	1/1	No. on Job	2
Travel if Applicable		PER	Airlines Vehicle	Hours:	,2	M ands	to 5 P	Total M Hours 2	186
Hours:	Miles Total		venicie	Worked	to O	₹M -and-	to D P	-	HRS
Signature of Customer	& Representative ce	ertifies time and m	naterial correct	_ HA	e. Signature, and	d Level of Examin	ner	N	Assistant

Signature of Customer's Representative certifies time and material correct

Name, Signature, and Level of Examiner

Associated with this project. An invoice will be submitted reflecting the current rates on file

GR-BI-001

	Case 17-30005	Document 8	8-2 Fileu	III 172B 011 02/T	0/16 Pa	ge 106	01 133
	NSPECTION. INC	Office (409) Fax (409)	/, TX 77590 9) 948-1012			Page SC#	1_of]
CUSTOMER/C	CONTACT REAG	ONIR	Cool	PER		DATE	MARCH Zo
LOCATION/AD		LAINST	LAMI	ARQUETX	775	568	
UNIT/SYSTEM	N	/A				P22°	13-4735
	QA/QC	Con	SULT	ING			
·							

	:								
9	MAR 248	R COOPER	Per Diem Yes No	Report #	4/6	Unit #	Alu	No. on Job 229	13
	Travel if Applicable		Airlines	Hours:			5'20	Total	0
	Hours:	Miles Total	Vehicle	Worked	to	AM and	to. Jew	Hours	
	Ce			HALL	ul AL	LING	= Hel	7	ILA
	Signature of Customer	's Representative certifies time and ma	aterial correct	Name, Sig	nature, and	Level of Exan	niner		Assistant

Customer signature indicates satisfactory performance & agreement with time, materials, equipment and cost associated with this project. An invoice will be submitted reflecting the current rates on file GR-BI-001

Case 17-36605 Document 88-2 Filed in TXSB on 05/16/18 Page 107 of 133

00000	Doddfiell 60 Z Thea in TXOD on 60	110/10 1 age 107 01 100
CUSTOMER/CONTACT ARA LOCATION/ADDRESS	2602 Texas Ave Texas City, TX 77590 Office (409) 948-1012 Fax (409) 948-0839 www.blazerinspection.com	Page of SC# N/A DATE 2 MARCH 201
UNIT/SYSTEM	1/4	P2792-4735
QA/Q	C CONSULTING	
		1.

12 MARZOIS	Customer Conta	COPER	Per Die Yes	em No	Rep	A/M	Unit	#H/A	No. on .	93
Travel if Applicable Hours:	Miles Total	ALM	Airlines Vehicle	4/4	Hours: Worked	7	AM and	5:30	Total PM Hours	10
Co.	6	7			H	ALW	ALLIN	se The	l	NA
Signature of Customer's	Representative	certifies time and mate	erial correct		Nam	ie, Signature, a	nd Level of E	xaminer		Assistant

Customer signature indicates satisfactory performance & agreement with time, materials, equipment and cost associated with this project. An invoice will be submitted reflecting the current rates on file GR-BI-001

Case 17-36605 Document 88-2 Filed in TXSB on 05/16/18 Page 108 of 133

4	
0	(F)
INSPECT	ON INC
1	

2602 Texas Ave Texas City, TX 77590 Office (409) 948-1012

	1	1
Page	of	1
-	-	

Fax (409) 948-0839 www.blazerinspection.com SC# CUSTOMER/CONTACT LOCATION/ADDRESS UNIT/SYSTEM CONSULTIN Per Diem Date No. on Job Report # 13 MAR ZOIS No 🕨 Yes Travel if Applicable Airlines Hours Total PM Hours Vehicle Hours: Miles Total Worked AM and

Signature of Customer's Representative certifies time and material correct

Name, Signature, and Level of Examiner

Assistant

Customer signature indicates satisfactory performance & agreement with time, materials, equipment and cost associated with this project. An invoice will be submitted reflecting the current rates on file GR-BI-001

Case 17-36605 Document 88-2 Filed in TXSB on 05/16/18 Page 109 of 133

		2602 Texas Ave		
MAZE		Texas City, TX 77590 Office (409) 948-1012		Page 1
		Fax (409) 948-0839		Page of
INSPECTION	NC)	www.blazerinspection.com		. 10
				sc# N/A
CUSTOMER/CONTACT	7	100		DATE M MARCH 2019
- COSTOWER/CONTACT	MRAGON	/R.Coop	-	IN ININKCH ZOV
LOCATION/ADDRESS	500 MAIN	ST LAMAR	QUEX 775	568
UNIT/SYSTEM	N/A			P2293-4735
	14/14			7215 4155
Q	1/QC	CONSUL	TING	
9				
				9.
-				
				
1				
1				
				5.
-				
D	Marian Cartast	ID: D'	(Decent# * 1947)	1
Mar 2018 Cu	stomer Contact	Per Diem Yes No [Report # Unit	No. on Job 7793
Travel if Applicable	NI IN	Airlines	Hours:	Total 2
	Miles Total A		Vorked to AM and	to PM Hours
				-/1
()			HALLIAMINI	G XCI N/A
Signature of Customer's Re	epresentative certifies time and	I material correct	Name, Signature, and Level of E	xaminer Assistant

Customer signature indicates satisfactory performance & agreement with time, materials, equipment and cost associated with this project. An invoice will be submitted reflecting the current rates on file GR-BI-001

Case 17-36605 Document 88-2 Filed in TXSB on 05/16/18 Page 110 of 133

A PARTY	2602 Texas Ave Texas City, TX 77590 Office (409) 948-1012 Fax (409) 948-0839 www.blazerinspection.com	Page of SC#
		sc# 1/A
CUSTOMER/CONTACT ARAC	FOH R. COOPER	DATE 15 MARCH 2
LOCATION/ADDRESS 500	MAILL ST. LAMARQI	
UNIT/SYSTEM N	/A	2293-4735
QA/Q	C CONSULTING	
		4
		*
Date Customer Contact Travel if Applicable	Per Diem Yes No Per H Airlines Hours:	/A Unit # \/A \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
Hours: Miles Total	Vehicle Worked	7 AM and to PM Hours 3
0	HAL	WALLING The N/A
Signature of Customer's Representative cer	ruries time and material correct Name, Signat	ture, and Level of Examiner Assistant

Customer signature indicates satisfactory performance & agreement with time, materials, equipment and cost associated with this project. An invoice will be submitted reflecting the current rates on file

GR-BI-001

Case 17-36605 Document 88-2 Filed in TXSB on 05/16/18 Page 111 of 133

Blazer Inspection, Inc.

2602 Texas Ave.
Texas City, TX 77590 US
409-948-1012
jspruiell@blazerinspection.com
www.blazerinspection.com



BILL TO

Paragon Fab, Inc. 500 Main La Marque, Tx 77568

INVOICE 2532

DATE 03/15/2018 **TERMS** Net 30

DUE DATE 04/14/2018

PURCHASE ORDER

Welder Testing

ACTIVITY	QTY	RATE	AMOUNT
Welder Testing:2" CS Pipe Test Up To XX James Billiot - 2/28/2018	1	160.00	160.00
Welder Testing:12" 1104 Butt Test James Billiot - 2/28/18	1	375.00	375.00
Welder Testing:2" CS Pipe Test Up To XX Eric Cousin - 2/28/18	1	160.00	160.00
Welder Testing:12" 1104 Butt Test Eric Cousin - 2/28/18	1	375.00	375.00
Welder Testing:2" CS Pipe Test Up To XX James Cloyed - 2/28/18	1	160.00	160.00
Welder Testing:Plate Test Coupon 3/8" James Cloyed - 2/28/18	1	14.00	14.00
Welder Testing:12" 1104 Butt Test Daniel Fletcher - 3/1/18	1	375.00	375.00
Welder Testing:Plate Test Coupon 3/8" Daniel Fletcher - 3/1/18	1	14.00	14.00
Welder Testing:12" 1104 Butt Test Fernando Garza - 3/1/18	1	375.00	375.00
Welder Testing:Plate Test Coupon 3/8" Fernando Garza - 3/1/18	1	14.00	14.00
Welder Testing:2" CS Pipe Test Up To XX Fernando Garza - 3/1/18	1	160.00	160.00
Welder Testing:2" CS Pipe Test Up To XX Kobe Webber - 3/1/18	1	160.00	160.00
Welder Testing:Plate Test Coupon 3/8" Kobe Webber - 3/1/18	1	14.00	14.00
Welder Testing:12" 1104 Butt Test Kobe Webber - 3/1/18	1	375.00	375.00

Case 17-36605 Document 88-2 Filed in TXSB on 05/16/18 Page 112 of 133

ACTIVITY	QTY	RATE	AMOUNT
Welder Testing:12" 1104 Butt Test Justin Cross - 3/1/18	1	375.00	375.00
Welder Testing:Plate Test Coupon 3/8" Justin Cross - 3/1/18	2	14.00	28.00
Welder Testing:12" 1104 Butt Test Justin Cross 2nd Try - 3/1/18	1	375.00	375.00
Welder Testing:2" CS Pipe Test Up To XX Justin Cross - 3/2/18	1	160.00	160.00
Welder Testing:12" 1104 Butt Test Fernando Garza 2nd Try - 3/2/18	1	375.00	375.00
Welder Testing:2" CS Pipe Test Up To XX Jason Moore - 3/2/18	1	160.00	160.00
Welder Testing:12" 1104 Butt Test Jason Moore - 3/2/18	1	375.00	375.00
Welder Testing:Plate Test Coupon 3/8" Jason Moore - 3/2/18	1	14.00	14.00
Welder Testing:12" 1104 Butt Test Jason Moore 2nd Try - 3/3/18	1	375.00	375.00
Welder Testing:2" CS Pipe Test Up To XX Javier Fuentes - 3/3/18	1	160.00	160.00
Welder Testing:12" 1104 Butt Test Javier Fuentes - 3/3/18	1	375.00	375.00
Project Personnel:Personnel:QA/QC Technician OT Weld Monitoring Saturday 3/3/18	10	112.50	1,125.00
Welder Testing:12" 1104 Butt Test Reynaldo Supulveda - 3/10/18	1	375.00	375.00
Welder Testing:2" CS Pipe Test Up To XX Raynaldo Supulveda - 3/10/18	1	160.00	160.00
Project Personnel:Personnel:QA/QC Technician OT Weld Monitoring Saturday 3/10/18	5	112.50	562.50

TOTAL DUE \$7,725.50

Case 17-36605 Document 88-2 Filed in TXSB on 05/16/18 Page 113 of 133 Blazer Inspection Inc. Welder Performance Qualification

2602 Texas Ave. Texas City, Texas

Welder's Name: Welding Process(es) U	James "Pooky" Billi	ot TDL ₁	12695480	- Semniautomati	Unknown	
Welding Procedure Ide					W-FCAW 2	
Base Material(s) Welde		B to SA-106 gr. B		.436"		_
Manual or Semiatuoma		<u>-</u>		Actual Values		alified
Backing (metal, weld met			•	none/weld metal	<u> </u>	
ASME P-No.		ASME P-No. (QV		P1 to P1	P1-P11, 3	
() Plate X	Pipe (enter diame	, -		2.39"o.d.	1" to unli	-
Filler metal specification	• `	• • •	ation (OW-404)	ER70S6/E71T1	ER70S6/E	
Filler metal F- No.:				6/6	All F	6
Consumable insert for	GTAW or PAW:			N/A	N/A	
Weld deposit thickness	for each welding pro	ocess		.229"/.229"	.458"/.4	58"
Welding position (1G,				6G	All	
Welding progression (Down and Up/Up	Down and	Up/Up
Backing gas fro GTAV	-	fuel gas for OFW	7 (QW-408)	None	With or W	ithout
GMAW transfer mode		5	, ,	Short Circuting	Short circ	uting
GTAW welding curren	, - ,			N/A	N/A	
Machine Welding Var		ss Used (QW-360))			
Direct / remote visual of	control			N/A	N/A	
Automatic voltage con	trol (GTAW)			N/A	N/A	
Automatic joint trackir	ıg			N/A	N/A	
Welding position (1G,	5G, etc.)			N/A	N/A	
Consumable insert				N/A	N/A	
Backing (metal, weld r	netal, welded from be	oth sides, flux, etc	c.)	N/A	N/A	
		Guided Bend T	est Results		•,•	
Guided Bend Tests Type	(X) QW-462.2 (Side) F	Results () OV	V-462.3a. (Trans. R&F) T	Γvne ()OW-	462.3b (Long, R&F)	Results
Side 1	Accep		Side 4	1	Acceptable	
Side 2	Accer					
Side 3	Accer	otable				
Visual examination res			Acce	ptable	-	
Radiographic test resul	, -	/-305) —	N/A	A	_	
(For alternative qualifi-	, ,		<u></u>			
Fillet Weld - Facture to	est N/A	Le	ngth & percent of c	defects	N/A	in.
Macro Test Fusion	N/A F	illet leg size	N/A	4 <u> </u>	in.	
Welding Test Conduct	ed By: Ha	l Walling AWSS	CWI 05110018			
Mechanical Tests Cond	lucted By: Ha	al Walling AWS So	CWI 05110018		_	
	ements in this record	are correct and the	hat the test coupons	s were prepared, w	elded, and	
We certify that the stat	ith requirements of S	section IX of the	ASME Code.			
we certify that the stat tested in accordance w						
=		Organization:	<u></u>			
=		Organization:				

Case 17-36605 Document 88-2 Filed in TXSB on 05/16/18 Page 114 of 133 Blazer Inspection Inc. Welder Performance Qualification

2602 Texas Ave. Texas City, Texas

Welder's Name: Jame	es "Pooky" Billi	iotTDL1	12695480	_ Star	mp #:	X	
Welding Process(es) Utilize	d: <u>G</u>	MAW and FCAV	W Type:	Semniaut	omatic	_	
Welding Procedure Identific	cation # Utlized	by Welder for Q	ualification:	(GMAW-	-FCAW 2	
Base Material(s) Welded:	SA-106 gr. I	B to SA-106 gr. B	Thickness:	.386"		_	
Manual or Semiatuomatic V	'ariables for Eac	ch Process (QW-3	350)	Actual Va	lues	Range Qu	alified
Backing (metal, weld metal, we	lded from both si	des, flux, etc. (QW-	-402)	none/weld	metal	with or with	out/with
ASME P-No.	P1 to	ASME P-No. (Q	W-403)	P1 to P	1	P1-P11, 3	34, 4X
() Plate X P	ipe (enter diame	eter if pipe)		12.75" o	.d.	2.875" to U	nlimited
Filler metal specification (S	FA): <u>ER70S6</u>	/E71T1 Classific	cation (QW-404)	ER70S6/E	71T1	ER70S6/	E71T1
Filler metal F- No.:				6/6		All F	6
Consumable insert for GTA	W or PAW:			N/A		N/A	\
Weld deposit thickness for a	each welding pro	ocess		.193"/.19	93"	.386"/.3	386"
Welding position (1G, 5G,	etc.) (QW-405)			6G		All	
Welding progression (uphil	l/downhill)			Down and U	Jp/Up	Down and	Up/Up
Backing gas fro GTAW, PA	W, or GMAW;	fuel gas for OFW	/ (QW-408)	None		With or V	/ithout
GMAW transfer mode (QW	-409)			Short Circ	uting	Short Cir	cuting
GTAW welding current type	e/polarity			N/A		N/A	١
Machine Welding Variable	e for the Proces	ss Used (QW-360))			•	
Direct / remote visual contro	ol			N/A		N/A	\
Automatic voltage control (GTAW)			N/A		N/A	\
Automatic joint tracking				N/A		N/A	\
Welding position (1G, 5G,	etc.)			N/A		N/A	١
Consumable insert				N/A		N/A	\
Backing (metal, weld metal,	, welded from be	oth sides, flux, et	c.)	N/A		N/A	Δ.
		Guided Bend T	Test Results			•	
Guided Bend Tests Type ()	QW-462.2 (Side) I	Results (X) OV	V-462.3a. (Trans. R&F) 1	Type () OW-462	.3b (Long, R&F)	Results
Root 1	Accep	` ` ` ` ` `	Face 2	- 		Acceptable	
Root 2	Accep					•	
Face 1	Accer						
Visual examination results (<u> </u>	<u> </u>	Acce	ptable			
Radiographic test results (Q		/-305) —	N/A			_	
(For alternative qualification	•					– N/A	
Fillet Weld - Facture test	N/A		ength & percent of c	defects		N/A	in.
Macro Test Fusion		illet leg size	N/A			in.	
Welding Test Conducted By		al Walling AWS S		<u>-</u>			
Mechanical Tests Conducte		al Walling AWS S					
	· —			s were prepare	ed, weld	led. and	
We certify that the statemen			-	p. epu.	,	», 	
We certify that the statement tested in accordance with re	auirements of S	ection IX of the	ASME Code.				
We certify that the statement tested in accordance with re	quirements of S						
	equirements of S	Gection IX of the A					

Case 17-36605 Document 88-2 Filed in TXSB on 05/16/18 Page 115 of 133 Blazer Inspection Inc. Welder Performance Qualification

2602 Texas Ave. Texas City, Texas

Welder's Name:	Eric Cousi	in TDL#	8960533	Stamp #:	Unknown	
Welding Process(es)	Utilized:	GMAW and FCA	W Type:	Semniautomati	<u>c </u>	
Welding Procedure I	dentification # Utl	lized by Welder for Q	ualification:	GMA	W-FCAW 2	
Base Material(s) We	lded: SA-106	gr. B to SA-106 gr. I	Thickness:	.436"		
Manual or Semiatuo	matic Variables for	r Each Process (QW-	350)	Actual Values	Range Quali	fied
Backing (metal, weld n	netal, welded from bo	oth sides, flux, etc. (QW	-402)	none/weld metal	with or Without/	with
ASME P-No.	P1	to ASME P-No. (Q	W-403)	P1 to P1	P1-P11, 34,	4X
() Plate X	Pipe (enter d	iameter if pipe)		2.39"o.d.	1" to unlimit	ted
Filler metal specifica	tion (SFA): ER7	0S6/E71T1 Classific	cation (QW-404)	ER70S6/E71T1	ER70S6/E71	TI
Filler metal F- No.:				6/6	All F6	
Consumable insert for	or GTAW or PAW	:		N/A	N/A	
Weld deposit thickne	ess for each weldin	g process		.229"/.229"	.458"/.458	H
Welding position (1	G, 5G, etc.) (QW-	405)		6G	All	
Welding progression	(uphill/downhill)			Down and Up/Up	Down and Up	/Up
Backing gas fro GTA	W, PAW, or GM	AW; fuel gas for OFV	V (QW-408)	None	With or With	out
GMAW transfer mod	ie (QW-409)			Short Circuting	Short circuti	ng
GTAW welding curr	ent type/polarity			N/A	N/A	
Machine Welding V	ariable for the Pi	rocess Used (QW-36	0)		,	
Direct / remote visua	ıl control			N/A	N/A	
Automatic voltage co	ontrol (GTAW)			N/A	N/A	
Automatic joint track	cing			N/A	N/A	
Welding position (10	3, 5G, etc.)			N/A	N/A	
Consumable insert				N/A	N/A	
Backing (metal, weld	i metal, welded fro	om both sides, flux, et	ic.)	N/A	N/A	
		Guided Bend	Fest Results		•,	
Guided Bend Tests Type	(X) QW-462.2 (S	Side) Results () O	W-462.3a. (Trans. R&F)	Γγpe () QW-4	162.3b (Long, R&F) Res	sults
Side 1		Acceptable	Side 4		Acceptable	
Side 2	A	Acceptable				
Side 3	A	Acceptable				
Visual examination i	results (QW-302.4)	Acce	ptable		
Radiographic test res	sults (QW-304 and	QW-305)	N/A	4	_	
(For alternative qual	ification of groove	welds by radiograph	y)			
•			ength & percent of c	defects	N/A	in
Fillet Weld - Facture	N/A	Fillet leg size	N/A	<u> </u>	in.	
Fillet Weld - Facture Macro Test Fusion	11/7		SCWI 05110018			
Macro Test Fusion		Hal Walling AWS S			•	
	cted By:	Hal Walling AWS S				
Macro Test Fusion Welding Test Condu Mechanical Tests Co	octed By:		CWI 05110018	s were prepared, we	- lded, and	
Macro Test Fusion Welding Test Condu Mechanical Tests Co We certify that the st	ncted By: onducted By: tatements in this re	Hal Walling AWS S	CWI 05110018 that the test coupons	s were prepared, we	- elded, and	
Macro Test Fusion Welding Test Condu Mechanical Tests Co We certify that the st	ncted By: onducted By: tatements in this re	Hal Walling AWS S	that the test coupons ASME Code.	s were prepared, we	elded, and	
Macro Test Fusion Welding Test Condu Mechanical Tests Co We certify that the st	ncted By: onducted By: tatements in this re	Hal Walling AWS S ecord are correct and to s of Section IX of the	that the test coupons ASME Code.	s were prepared, we	elded, and	

Case 17-36605 Document 88-2 Filed in TXSB on 05/16/18 Page 116 of 133

Blazer Inspection Inc.

Welder Performance Qualification

2602 Texas Ave. Texas City, Texas Test # 180004

Stamp #: Unknown 8960533 Eric Cousin Welder's Name: TDL₁ Welding Process(es) Utilized: GMAW and FCAW Semniautomatic Type: **GMAW-FCAW 2** Welding Procedure Identification # Utlized by Welder for Qualification: .386" Base Material(s) Welded: SA-106 gr. B to SA-106 gr. B Manual or Semiatuomatic Variables for Each Process (QW-350) **Actual Values** Range Qualified none/weld metal with or without/with Backing (metal, weld metal, welded from both sides, flux, etc. (QW-402) P1-P11, 34, 4X P1 to P1 ASME P-No. to ASME P-No. (QW-403) 2.875" to Unlimited 12.75" o.d. () Plate Х Pipe (enter diameter if pipe) ER70S6/E71T1 ER70S6/E71T1 Filler metal specification (SFA): ER70S6/E71T1 Classification (QW-404) 6/6 All F6 Filler metal F- No.: N/A N/A Consumable insert for GTAW or PAW: .386"/.386" .193"/.193" Weld deposit thickness for each welding process 6G All Welding position (1G, 5G, etc.) (QW-405) Down and Up/Up Down and Up/Up Welding progression (uphill/downhill) With or Without None Backing gas fro GTAW, PAW, or GMAW; fuel gas for OFW (QW-408) **Short Circuting Short Circuting** GMAW transfer mode (QW-409) N/A N/A GTAW welding current type/polarity Machine Welding Variable for the Process Used (QW-360) N/A Direct / remote visual control N/A N/A N/A Automatic voltage control (GTAW) N/A Automatic joint tracking N/A N/A N/A Welding position (1G, 5G, etc.) N/A Consumable insert N/A Backing (metal, weld metal, welded from both sides, flux, etc.) N/A N/A **Guided Bend Test Results** () QW-462.2 (Side) Results (X) QW-462.3a. (Trans. R&F) Type () QW-462.3b (Long, R&F) Results Guided Bend Tests Type Root1 Acceptable Face 2 Acceptable Root 2 Acceptable Face 1 Acceptable Acceptable Visual examination results (QW-302.4) N/A Radiographic test results (QW-304 and QW-305) (For alternative qualification of groove welds by radiography) N/A N/A N/A Fillet Weld - Facture test Length & percent of defects in. N/A Fillet leg size in. Macro Test Fusion Hal Walling AWS SCWI 05110018 Welding Test Conducted By: Hal Walling AWS SCWI 05110018 Mechanical Tests Conducted By: We certify that the statements in this record are correct and that the test coupons were prepared, welded, and tested in accordance with requirements of Section IX of the ASME Code. Organization: Date: 28 February 2018 By:

Case 17-36605 Document 88-2 Filed in TXSB on 05/16/18 Page 117 of 133 Blazer Inspection Inc. Welder Performance Qualification

•.

2602 Texas Ave. Texas City, Texas

•	James Cloyed	TDL ₁	28486543	Stamp #:	Unknown	
Welding Process(es) Utilize	ed: GMAW a	nd FCAW	Туре:	Semniautomat	ic_	
Welding Procedure Identifie	cation # Utlized by Weld	ier for Qua	lification:	GMA	W-FCAW 2	
Base Material(s) Welded:	SA-106 gr. B to SA-	106 gr. B	Thickness:	.436"		
Manual or Semiatuomatic V	/ariables for Each Proces	ss (QW-35	- D)	Actual Values	Range Qual	lified
Backing (metal, weld metal, we	elded from both sides, flux,	etc. (QW-40	02)	none/weld metal	with or withou	t/with
ASME P-No.	P1 to ASME P	-No. (QW-	403)	PI to PI	P1-P11, 34	, 4X
() Plate X P	ipe (enter diameter if pip	oe)		2.39"o.d.	1" to unlim	ited
Filler metal specification (S	FA): ER70S6/E71T1	Classificat	ion (QW-404)	ER70S6/E71T1	ER70S6/E7	'1T1
Filler metal F- No.:	 	•		6/6	All F6	
Consumable insert for GTA	W or PAW:			N/A	N/A	
Weld deposit thickness for	each welding process			.229"/.229"	.458"/.45	8"
Welding position (1G, 5G,	etc.) (QW-405)			6G	All	
Welding progression (uphil	l/downhill)			Down and Up/Up	Down and U	p/Up
Backing gas fro GTAW, PA	W, or GMAW; fuel gas	for OFW (QW-408)	None	With or Wit	hout
GMAW transfer mode (QW	- ·	·	,	Short Circuting	Short circu	ting
GTAW welding current type				N/A	·N/A	
Machine Welding Variabl		(QW-360)				
Direct / remote visual control		,		N/A	N/A	
Automatic voltage control (GTAW)			N/A	N/A	
Automatic joint tracking	,			N/A	N/A	
Welding position (1G, 5G,	etc.)				N/A	
Consumable insert	,				N/A	
Consumation illacit						
	, welded from both sides	i, flux, etc.)		IN/A	N/A	
Backing (metal, weld metal				IN/A	N/A	
Backing (metal, weld metal	Guideo	d Bend Tes	st Results			aculte
Backing (metal, weld metal	Guideo QW-462.2 (Side) Results	d Bend Tes	et Results 62.3a. (Trans. R&F) T		462.3b (Long, R&F) R	esults
Backing (metal, weld metal, Guided Bend Tests Type (X) Side 1	Guideo QW-462.2 (Side) Results Not done	d Bend Tes	st Results			esults
Backing (metal, weld metal, Guided Bend Tests Type (X) Side 1 Side 2	QW-462.2 (Side) Results Not done Not done	d Bend Tes	et Results 62.3a. (Trans. R&F) T		462.3b (Long, R&F) R	esults
Backing (metal, weld metal, Guided Bend Tests Type (X) Side 1 Side 2 Side 3	QW-462.2 (Side) Results Not done Not done Not done	d Bend Tes	et Results 62.3a. (Trans. R&F) T Side 4	Type () QW-	462.3b (Long, R&F) R	esults
Backing (metal, weld metal, Guided Bend Tests Type (X) Side 1 Side 2 Side 3 Visual examination results (QW-462.2 (Side) Results Not done Not done Not done (QW-302.4)	d Bend Tes	st Results 62.3a. (Trans. R&F) T Side 4 Reje	Type () QW-	462.3b (Long, R&F) R	esults
Backing (metal, weld metal, Guided Bend Tests Type (X) Side 1 Side 2 Side 3 Visual examination results (Q	QW-462.2 (Side) Results Not done Not done Not done (QW-302.4) QW-304 and QW-305)	d Bend Tes	et Results 62.3a. (Trans. R&F) T Side 4	Type () QW-	462.3b (Long, R&F) R Not done	esults
Backing (metal, weld metal, Guided Bend Tests Type (X) Side 1 Side 2 Side 3 Visual examination results (Radiographic test results (Q (For alternative qualification)	QW-462.2 (Side) Results Not done Not done Not done (QW-302.4) (W-304 and QW-305) n of groove welds by rad	d Bend Tes () QW-4 liography)	et Results 62.3a. (Trans. R&F) T Side 4 Reje	Type () QW-	462.3b (Long, R&F) R Not done N/A	
Backing (metal, weld metal, Guided Bend Tests Type (X) Side 1 Side 2 Side 3 Visual examination results (Radiographic test results (Q (For alternative qualification of the content	QW-462.2 (Side) Results Not done Not done Not done (QW-302.4) (W-304 and QW-305) n of groove welds by rad N/A	d Bend Tes () QW-4 liography) Leng	st Results 62.3a. (Trans. R&F) T Side 4 Reje	Fype () QW-	462.3b (Long, R&F) R Not done N/A N/A	esults in.
Backing (metal, weld metal, Guided Bend Tests Type (X) Side 1 Side 2 Side 3 Visual examination results (Q (For alternative qualification Fillet Weld - Facture test Macro Test Fusion	QW-462.2 (Side) Results Not done Not done Not done (QW-302.4) (W-304 and QW-305) n of groove welds by rad N/A N/A Fillet leg	d Bend Tes () QW-4 liography) Leng	Reject the Approximate the App	Fype () QW-	462.3b (Long, R&F) R Not done N/A N/A in.	
Backing (metal, weld metal, Guided Bend Tests Type (X) Side 1 Side 2 Side 3 Visual examination results (Radiographic test results (Q (For alternative qualification) Fillet Weld - Facture test Macro Test Fusion Welding Test Conducted By	QW-462.2 (Side) Results Not done Not done Not done (QW-302.4) QW-304 and QW-305) n of groove welds by rad N/A N/A Fillet leg y: Hal Walling	d Bend Tes () QW-4 liography) Leng size AWS SCV	Reject the Approximate the App	Fype () QW-	462.3b (Long, R&F) R Not done N/A N/A	
Guided Bend Tests Type (X) Side 1 Side 2 Side 3 Visual examination results (Q (For alternative qualification Fillet Weld - Facture test Macro Test Fusion Welding Test Conducted By Mechanical Tests Conducted	QW-462.2 (Side) Results Not done Not done Not done (QW-302.4) QW-304 and QW-305) n of groove welds by rad N/A N/A N/A Fillet leg y: Hal Walling td By: Hal Walling	d Bend Tes () QW-4 liography) Leng size AWS SCV	Reject N/A Reject N/A WI 05110018	ected A	462.3b (Long, R&F) R Not done N/A N/A in.	
Backing (metal, weld metal, Guided Bend Tests Type (X) Side 1 Side 2 Side 3 Visual examination results (Radiographic test results (Q (For alternative qualification) Fillet Weld - Facture test Macro Test Fusion Welding Test Conducted By Mechanical Tests Conducted We certify that the statement	QW-462.2 (Side) Results Not done Not done Not done (QW-302.4) QW-304 and QW-305) n of groove welds by rad N/A N/A N/A Fillet leg Hal Walling dd By: Hal Walling tts in this record are corrected.	d Bend Tes () QW-4 liography) Leng size AWS SCV g AWS SCV ect and that	Reject the Appropriate the Results 62.3a. (Trans. R&F) To Side 4 Reject N/A WI 05110018 VI 05110018 It the test coupons	ected A	462.3b (Long, R&F) R Not done N/A N/A in.	
Guided Bend Tests Type (X) Side 1 Side 2 Side 3 Visual examination results (Q (For alternative qualification Fillet Weld - Facture test Macro Test Fusion Welding Test Conducted By Mechanical Tests Conducted	QW-462.2 (Side) Results Not done Not done Not done (QW-302.4) W-304 and QW-305) n of groove welds by rad N/A N/A Fillet leg y: Hal Walling at in this record are corrected.	d Bend Tes () QW-4 liography) Leng size AWS SCV g AWS SCV ect and that	Reject the Appropriate the Results 62.3a. (Trans. R&F) To Side 4 Reject N/A WI 05110018 VI 05110018 It the test coupons	ected A	462.3b (Long, R&F) R Not done N/A N/A in.	
Backing (metal, weld metal, Guided Bend Tests Type (X) Side 1 Side 2 Side 3 Visual examination results (Radiographic test results (Q (For alternative qualification) Fillet Weld - Facture test Macro Test Fusion Welding Test Conducted By Mechanical Tests Conducted We certify that the statement	QW-462.2 (Side) Results Not done Not done Not done (QW-302.4) W-304 and QW-305) n of groove welds by rad N/A N/A Fillet leg y: Hal Walling at in this record are corrected.	d Bend Tes () QW-4 liography) Leng size AWS SCV g AWS SCV ect and that	Reject the Appropriate the Results 62.3a. (Trans. R&F) To Side 4 Reject N/A WI 05110018 VI 05110018 It the test coupons	ected A	462.3b (Long, R&F) R Not done N/A N/A in.	

Case 17-36605 Document 88-2 Filed in TXSB on 05/16/18 Page 118 of 133 Blazer Inspection Inc. Welder Performance Qualification

2602 Texas Ave. Texas City, Texas

Welder's Name:	Danielle F	letcher	TDL1_	15230045	S	tamp #:	Unknown	
Welding Process(es) Utilized:	GMA'	W and FCA	W Type:	Semnia	utomatic		
Welding Procedure	Identification # 1	Utlized by V	Velder for C	ualification:		GMAW	-FCAW 2	
Base Material(s) W	elded: SA-1	06 gr. B to	SA-106 gr. 1	3 Thickness:	.386	5"		
Manual or Semiatud	omatic Variables	for Each Pr	ocess (QW-	350)	Actual \	/alues	Range Qu	alified
Backing (metal, weld	metal, welded from	1 both sides, f	lux, etc. (QW	-402)	none/wel	d metal	with or with	out/with
ASME P-No.	P1	to ASM	IE P-No. (Q	W-403)	P1 to	Pl	P1-P11, 3	34, 4X
() Plate X	Pipe (ente	r diameter i	f pipe)		12.75"	o.d.	2.875" to U	nlimited
Filler metal specific	ation (SFA): E	R70S6/E71	T1 Classifi	cation (QW-404)	ER70S6/	E71T1	ER70S6/I	E 7 1T1
Filler metal F- No.:					6/6	5	All F	6
Consumable insert	or GTAW or PA	.W:			N//	4	N/A	1
Weld deposit thickr	ess for each wel	ding process	3		.193"/.	193"	.386"/.3	386"
Welding position (IG, 5G, etc.) (QV	N-405)			60		All	
Welding progressio	n (uphill/downhi	11)			Down and	Up/Up	Down and	Up/Up
Backing gas fro GT	· •	·	gas for OFV	V (QW-408)	Nor	ne	With or W	/ithout
GMAW transfer mo	de (QW-409)			, ,	Short Cir	rcuting	Short Cir	cuting
GTAW welding cur		<i>,</i>			N/A	4	N/A	
Machine Welding			ed (QW-36	0)			•	
Direct / remote visu			, -		N/A	4	N/A	١
Automatic voltage o	control (GTAW)					4	N/A	
Automatic joint trac					N//	<u> </u>	N/A	
Welding position (1	G, 5G, etc.)				N//	4	N/A	
Consumable insert					N/2	4	N/A	<u> </u>
Backing (metal, we	d metal, welded	from both s	ides, flux, e	c.)	N//	4	N/A	
		Gu	ided Bend	Γest Results				
Guided Bend Tests Type	() QW-462.2	2 (Side) Results	• (Y) O'	W-462.3a. (Trans. R&F)	Type () OW-46	2.3b (Long, R&F)	Reculte
Root 1	() QW-402	Not done		Face 2	Турс	7011-102	Not done	- ICOURTS
Root 2		Not done						-
Face 1		Not done				_		
Visual examination	results (OW-307			Rejected, la	ack of fusion	n	_	
Radiographic test re			. –	N/2		·•	_	
(For alternative qua		-	_		•		– N/A	
Fillet Weld - Factur		ve weids by		ength & percent of	defects		N/A	in.
Macro Test Fusion	N/A	Fillet	leg size	N/A	_		in.	111.
Welding Test Cond			_	SCWI 05110018				
Juliang Tool Collu	•			CWI 05110018				
Mechanical Tests C	•		_		s were nrens	ared, weld	led, and	
Mechanical Tests C We certify that the	SERENCE INC. SERVICE STREET				cre prope		, m.u	
We certify that the		nts of Sectio						
We certify that the			rganization:					

Case 17-36605 Document 88-2 Filed in TXSB on 05/16/18 Page 119 of 133 Blazer Inspection Inc. Welder Performance Qualification

2602 Texas Ave. Texas City, Texas

Welder's Name:	Fernando G	arza TDL	25017030	Stamp #: _	Unknown
Welding Process(es) Uti	lized:	GMAW and FO	CAW Type:	Semniautomatic	
Welding Procedure Iden	tification # U	lized by Welder fo	r Qualification:	GMAW	-FCAW 2
Base Material(s) Welded	i: SA-10	6 gr. B to SA-106 g	r. B Thickness:	.386"	
Manual or Semiatuomat	ic Variables fo	or Each Process (Q	W-350)	Actual Values	Range Qualified
Backing (metal, weld metal	l, welded from b	ooth sides, flux, etc. (QW-402)	none/weld metal	with or without/with
ASME P-No.	P1	to ASME P-No.	(QW-403)	P1 to P1	P1-P11, 34, 4X
() Plate X	Pipe (enter	diameter if pipe)		12.75" o.d.	2.875" to Unlimited
Filler metal specification	1 (SFA): <u>ER</u>	70S6/E71T1 Class	sification (QW-404)	ER70S6/E71T1	ER70S6/E71T1
Filler metal F- No.:				6/6	All F6
Consumable insert for G	TAW or PAW	/ :		N/A	N/A
Weld deposit thickness t	for each weldi	ng process		.193"/.193"	.386"/.386"
Welding position (1G,	5G, etc.) (QW	-405)		6G	All
Welding progression (up	hill/downhill)		Down and Up/Up	Down and Up/Up
Backing gas fro GTAW,	PAW, or GM	AW; fuel gas for C	FW (QW-408)	None	With or Without
GMAW transfer mode (QW-409)			Short Circuting	Short Circuting
GTAW welding current	type/polarity			N/A	N/A
Machine Welding Vari	able for the P	rocess Used (QW-	-360)		
Direct / remote visual co	ontrol			N/A	N/A
Automatic voltage contr	ol (GTAW)			N/A	N/A
Automatic joint tracking	,			N/A	N/A
Welding position (1G, 5	G, etc.)			N/A	N/A
Consumable insert				N/A	N/A
Backing (metal, weld me	etal, welded fr	om both sides, flux	, etc.)	N/A	N/A
		Guided Ber	d Test Results		
Guided Bend Tests Type	() QW-462.2 ((Side) Results (X)	QW-462.3a. (Trans. R&F)	Гуре () QW-46	2.3b (Long, R&F) Results
Root 1		Not done	Face 2		Not done
Root 2		Not done			·
Face 1		Not done			
Visual examination resu	lts (QW-302.4	I)	Rejected, la	ack of fusion	
Radiographic test results	s (QW-304 an	d QW-305)	N/A	4	-
(For alternative qualification	ation of groov	e welds by radiogra	phy)		
Fillet Weld - Facture tes	t N/A		Length & percent of	defects	N/A in.
	N/A	Fillet leg size	N/A	<u></u>	in.
Macro Test Fusion	d By:	Hal Walling AV	/S SCWI 05110018		
Macro Test Fusion Welding Test Conducted		Hal Walling AW	S SCWI 05110018		
-	icted By:	1141 HANNED 1111			
Welding Test Conducted	•		nd that the test coupons	s were prepared, welc	ded, and
Welding Test Conducted Mechanical Tests Condu	ments in this r	ecord are correct ar	-	s were prepared, welc	ded, and
Welding Test Conducted Mechanical Tests Condu We certify that the states	ments in this r	ecord are correct ar	he ASME Code.	s were prepared, wel	ded, and
Welding Test Conducted Mechanical Tests Condu We certify that the states	ments in this r	ecord are correct are s of Section IX of t	he ASME Code.	s were prepared, wel	ded, and

Case 17-36605 Document 88-2 Filed in TXSB on 05/16/18 Page 120 of 133 Blazer Inspection, Inc. Welder Performance Qualification

Test # 180009

2602 Texas Ave. Texas City, Texas

Waldada Namas Fe	ernando Garza	TDL:	25017030	Cta #1	Unknown
		W and FCAV		Semniautomatic	
Welding Process(es) Utilized Welding Procedure Identific		_			
Base Material(s) Welded:	•			.436"	-TOAW 2
Manual or Semiatuomatic V	SA-106 gr. B to			Actual Values	— Range Qualified
		• •	-	none/weld metal	with or without/with
Backing (metal, weld metal, weld ASME P-No.		пих, еtc. (Qw- ЛЕ P-No. (Q\		P1 to P1	P1-P11, 34, 4X
	pe (enter diameter i		W-403)	2.39"o.d.	1" to unlimited
	•			ER70S6/E71T1	ER70S6/E71T1
Filler metal specification (SI	FA): <u>ER/056/E/1</u>	Classific	anon (Qw-404)	6/6	All F6
Filler metal F- No.:	IV D A IV.			N/A	·N/A
Consumable insert for GTA		_		.229"/.229"	.458"/.458"
Weld deposit thickness for e		S		6G	All
Welding position (1G, 5G, 6				Down and Up/Up	Down and Up/Up
Welding progression (uphill		c opu	. (011, 400)	None None	With or Without
Backing gas fro GTAW, PA		gas for OF w	(QW-408)	Short Circuting	Short circuting
GMAW transfer mode (QW-	•				N/A
GTAW welding current type	•			N/A	
Machine Welding Variable		sed (QW-360))	244	21/4
Direct / remote visual contro				N/A	N/A
Automatic voltage control (C	GTAW)			N/A	N/A
Automatic joint tracking				N/A	N/A
Welding position (1G, 5G, e	etc.)			N/A	N/A
Consumable insert				N/A	N/A
Backing (metal, weld metal,	welded from both s	sides, flux, etc	c.)	N/A	N/A
	Gı	uided Bend T	est Results		
	r		/-462.3a. (Trans. R&F) T	ype () QW-46	2.3b (Long, R&F) Results
Side 1	Acceptabl		Side 4		Acceptable
Side 2	Acceptabl				•
Side 3	Acceptabl	le			','
Visual examination results (ptable	_
Radiographic test results (Q'	•	_	N/A	<u> </u>	<u> </u>
(For alternative qualification	•	y radiography	/)		N/A
Fillet Weld - Facture test	N/A		ngth & percent of d		N/A in.
Macro Test Fusion		leg size	N/A	<u> </u>	<u>in</u>
Welding Test Conducted By	·		CWI 05110018		
Mechanical Tests Conducted	d By: Hal W	alling AWS So	CWI 05110018		
We certify that the statement			•	were prepared, wel	ded, and
tested in accordance with rec	•		ASME Code.		
	C	Organization:			
Date: 1 March 2	<u>2018</u> E	Ву:			

Welding Process(es) Utili Welding Procedure Identi Base Material(s) Welded: Manual or Semiatuomatic Backing (metal, weld metal, and a semiatuomatic Backing P-No. () Plate X Filler metal specification (and a semiatuomatic Filler metal F-No.: Consumable insert for GT Weld deposit thickness for Welding position (and a semiatus) Welding progression (uphaseking gas fro GTAW, F GMAW transfer mode (Q GTAW welding current types)	SA-106 gr. B to SA-106 gr. B to Variables for Each P welded from both sides, P1 to ASI Pipe (enter diameter (SFA): ER70S6/E7 TAW or PAW: or each welding proces G, etc.) (QW-405) mill/downhill) PAW, or GMAW; fue W-409) //pe/polarity	o SA-106 gr. B Process (QW-3, flux, etc. (QW- ME P-No. (QW- if pipe)	ralification: Thickness: 50) 402) W-403) ation (QW-404)	Semniautomatic GMAV .436" Actual Values none/weld metal P1 to P1 2.39"o.d. ER70S6/E71T1 6/6 N/A .229"/.229" 6G Down and Up/Up None	Range Qualified with or without/with P1-P11, 34, 4X 1" to unlimited ER70S6/E71T1 All F6 N/A .458"/.458" All Down and Up/Up
Base Material(s) Welded: Manual or Semiatuomatic Backing (metal, weld metal, ASME P-No. () Plate X Filler metal specification of Filler metal F- No.: Consumable insert for GT Weld deposit thickness fo Welding position (1G, 50) Welding progression (uph Backing gas fro GTAW, F GMAW transfer mode (Q)	SA-106 gr. B to E Variables for Each P welded from both sides, P1 to ASI Pipe (enter diameter (SFA): ER70S6/E7 FAW or PAW: For each welding proces G, etc.) (QW-405) hill/downhill) PAW, or GMAW; fue W-409) //pe/polarity	o SA-106 gr. B Process (QW-3, flux, etc. (QW- ME P-No. (QW- if pipe)	Thickness: 50) 402) W-403) ation (QW-404)	.436" Actual Values none/weld metal P1 to P1 2.39"o.d. ER70S6/E71T1 6/6 N/A .229"/.229" 6G Down and Up/Up	Range Qualified with or without/with P1-P11, 34, 4X 1" to unlimited ER70S6/E71T1 All F6 N/A .458"/.458" All Down and Up/Up
Manual or Semiatuomatic Backing (metal, weld metal, ASME P-No. () Plate X Filler metal specification of Filler metal F- No.: Consumable insert for GT Weld deposit thickness for Welding position (1G, 50) Welding progression (uph Backing gas fro GTAW, FGMAW transfer mode (Q)	e Variables for Each P welded from both sides, P1 to ASI Pipe (enter diameter (SFA): ER70S6/E7 TAW or PAW: or each welding proces G, etc.) (QW-405) mill/downhill) PAW, or GMAW; fue W-409) //pe/polarity	Process (QW-3, flux, etc. (QW-ME P-No. (QV-if pipe) 1111 Classific	50) 402) W-403) ation (QW-404)	Actual Values none/weld metal P1 to P1 2.39"o.d. ER70S6/E71T1 6/6 N/A .229"/.229" 6G Down and Up/Up	with or without/with P1-P11, 34, 4X I" to unlimited ER70S6/E71T1 All F6 N/A .458"/.458" All Down and Up/Up
Backing (metal, weld metal, ASME P-No. () Plate X Filler metal specification of the filler metal F- No.: Consumable insert for GT Weld deposit thickness for Welding position (1G, 50) Welding progression (uph Backing gas fro GTAW, FGMAW transfer mode (Q)	welded from both sides, P1 to ASI Pipe (enter diameter (SFA): ER70S6/E7 FAW or PAW: or each welding proces G, etc.) (QW-405) mill/downhill) PAW, or GMAW; fue W-409) //pe/polarity	, flux, etc. (QW-ME P-No. (QV if pipe) 1T1 Classific	402) W-403) ation (QW-404)	P1 to P1 2.39"o.d. ER70S6/E71T1 6/6 N/A .229"/.229" 6G Down and Up/Up	with or without/with P1-P11, 34, 4X I" to unlimited ER70S6/E71T1 All F6 N/A .458"/.458" All Down and Up/Up
ASME P-No. () Plate X Filler metal specification of Filler metal F- No.: Consumable insert for GT Weld deposit thickness for Welding position (1G, 50 Welding progression (uph Backing gas fro GTAW, FGMAW transfer mode (Q)	P1 to ASI Pipe (enter diameter (SFA): ER70S6/E7 TAW or PAW: or each welding proces G, etc.) (QW-405) mill/downhill) PAW, or GMAW; fue W-409) ype/polarity	ME P-No. (QV if pipe) 1111 Classific	W-403) ation (QW-404)	P1 to P1 2.39"o.d. ER70S6/E71T1 6/6 N/A 229"/.229" 6G Down and Up/Up	P1-P11, 34, 4X 1" to unlimited ER70S6/E71T1 All F6 :N/A .458"/.458" All Down and Up/Up
() Plate X Filler metal specification of Filler metal F- No.: Consumable insert for GT Weld deposit thickness for Welding position (1G, 50) Welding progression (uph Backing gas fro GTAW, FGMAW transfer mode (Q)	Pipe (enter diameter (SFA): ER70S6/E7 CAW or PAW: or each welding process, etc.) (QW-405) mill/downhill) PAW, or GMAW; fue W-409) //pe/polarity	if pipe) (1T1 Classific	ation (QW-404)	2.39"o.d. ER70S6/E71T1 6/6 N/A .229"/.229" 6G Down and Up/Up	1" to unlimited ER70S6/E71T1 All F6 N/A .458"/.458" All Down and Up/Up
Filler metal specification of Filler metal F- No.: Consumable insert for GT Weld deposit thickness fo Welding position (1G, 50 Welding progression (uph Backing gas fro GTAW, F GMAW transfer mode (Q	(SFA): ER70S6/E7 AW or PAW: or each welding proces G, etc.) (QW-405) mill/downhill) PAW, or GMAW; fue W-409) /pe/polarity	Classific Classific		ER70S6/E71T1 6/6 N/A .229"/.229" 6G Down and Up/Up	ER70S6/E71T1 All F6 .N/A .458"/.458" All Down and Up/Up
Filler metal F- No.: Consumable insert for GT Weld deposit thickness fo Welding position (1G, 50 Welding progression (uph Backing gas fro GTAW, F GMAW transfer mode (Q)	FAW or PAW: or each welding proces G, etc.) (QW-405) mill/downhill) PAW, or GMAW; fue W-409) ype/polarity	ss		6/6 N/A .229"/.229" 6G Down and Up/Up	All F6 .N/A .458"/.458" All Down and Up/Up
Consumable insert for GT Weld deposit thickness fo Welding position (1G, 50 Welding progression (uph Backing gas fro GTAW, F GMAW transfer mode (Q	or each welding procests, etc.) (QW-405) hill/downhill) PAW, or GMAW; fue W-409) ype/polarity		((QW-408)	N/A .229"/.229" 6G Down and Up/Up	•N/A .458"/.458" All Down and Up/Up
Weld deposit thickness fo Welding position (1G, 50 Welding progression (uph Backing gas fro GTAW, F GMAW transfer mode (Q	or each welding procests, etc.) (QW-405) hill/downhill) PAW, or GMAW; fue W-409) ype/polarity		′ (QW-408)	.229"/.229" 6G Down and Up/Up	.458"/.458" All Down and Up/Up
Welding position (1G, 50) Welding progression (uph Backing gas fro GTAW, F GMAW transfer mode (Q	G, etc.) (QW-405) hill/downhill) PAW, or GMAW; fue W-409) /pe/polarity		' (QW-408)	6G Down and Up/Up	All Down and Up/Up
Welding progression (uph Backing gas fro GTAW, F GMAW transfer mode (Q	nill/downhill) PAW, or GMAW; fue W-409) pe/polarity	el gas for OFW	′ (QW-408)	Down and Up/Up	Down and Up/Up
Backing gas fro GTAW, F GMAW transfer mode (Q	PAW, or GMAW; fue W-409) /pe/polarity	el gas for OFW	(QW-408)		
Backing gas fro GTAW, F GMAW transfer mode (Q	PAW, or GMAW; fue W-409) /pe/polarity	el gas for OFW	(QW-408)	None	3372ab 3372ab
• •	/pe/polarity	_	,		With or Without
• •	/pe/polarity			Short Circuting	Short circuting
	• •			N/A	N/A
Machine Welding Varial	ble for the Process U	Jsed (QW-360))		
Direct / remote visual con		, -	•	N/A	N/A
Automatic voltage control	l (GTAW)			N/A	N/A
Automatic joint tracking	, ,			N/A	N/A
Welding position (1G, 5G	i, etc.)			N/A	N/A
Consumable insert	•			N/A	N/A
Backing (metal, weld metal	al, welded from both	sides, flux, etc	c.)	N/A	N/A
		uided Bend T			
Guided Bend Tests Type (>	X) QW-462.2 (Side) Resul	ite () OV	7-462.3a. (Trans. R&F) 1	Tune () OW-4	62.3b (Long, R&F) Results
Side 1	Acceptab	1	Side 4	1 () Q 11 -4	Acceptable
Side 2	Acceptab				
Side 3	Acceptab				•
Visual examination results			Acce	ptable	
Radiographic test results ()5)	N/A		
(For alternative qualificati	• •	· —		-	— N/A
Fillet Weld - Facture test	N/A		ngth & percent of c	lefects	N/A in
Macro Test Fusion		t leg size	N/A		in.
Welding Test Conducted		alling AWS S			
Mechanical Tests Conduc		Valling AWS SO			
We certify that the stateme				were prepared we	elded, and
tested in accordance with			-	propurou, we	
accordance with	•	Organization:	LUMB COUC.		
	·	~- Danis attiviti.	-		-
Date: 1 Marc	:h 2018	Ву:			

2602 Texas Ave. Texas City, Texas

Welding Processies i itiliza	Coby Webber TDLi d: GMAW and FC	AW Type:	_ Stamp #: _ Semniautomatic		
Welding Process(es) Utilized Welding Procedure Identific	eation # Utlized by Welder for				
Base Material(s) Welded:	SA-106 gr. B to SA-106 gr	_	.386"		
• •	ariables for Each Process (QV		Actual Values	— Range Qu	alified
	lded from both sides, flux, etc. (Q	ŕ	none/weld metal	with or with	
	of to ASME P-No. (P1 to P1	P1-P11, 3	
	pe (enter diameter if pipe)	Q 100)	12.75" o.d.	2.875" to U	
	FA): ER70S6/E71T1 Classi	fication (OW-404)	ER70S6/E71T1	ER7086/I	
Filler metal F- No.:			6/6	All F	
Consumable insert for GTAV	W or PAW:		N/A	N/A	
Weld deposit thickness for e	ach welding process		.193"/.193"	.386"/.3	86"
Welding position (1G, 5G, 6	- ·		6G	All	
Welding progression (uphill	Down and Up/Up	Down and	Up/Up		
Backing gas fro GTAW, PA	None	With or W	/ithout		
GMAW transfer mode (QW-	Short Circuting	Short Cir	cuting		
GTAW welding current type	N/A	N/A			
Machine Welding Variable	e for the Process Used (QW-3	360)			
Direct / remote visual contro	ol		N/A	N/A	.
Automatic voltage control (C	GTAW)		N/A	N/A	\
Automatic joint tracking			N/A	N/A	
Welding position (1G, 5G, e	tc.)		N/A	N/A	
Consumable insert			N/A	N/A	
Backing (metal, weld metal,	welded from both sides, flux,	etc.)	N/A	N/A	
	Guided Bend	d Test Results			
Guided Bend Tests Type ()	QW-462.2 (Side) Results (X)	QW-462.3a. (Trans. R&F) T	Гуре () QW-46	2.3b (Long, R&F)	Results
<u>``</u>	Not done	Face 2	,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Not done	
Root 1	i Not dolle		I		
Root 1 Root 2	Not done				
					
Root 2	Not done Not done		of fusion on root		
Root 2 Face 1	Not done Not done QW-302.4)				
Root 2 Face 1 Visual examination results (Q' Radiographic test results (Q'	Not done Not done QW-302.4) W-304 and QW-305)	Rejected, lack o		— — N/A	
Root 2 Face 1 Visual examination results (Q' Radiographic test results (Q'	Not done Not done QW-302.4) W-304 and QW-305) n of groove welds by radiogram	Rejected, lack o	A	N/A N/A	in.
Root 2 Face 1 Visual examination results (Q) Radiographic test results (Q) (For alternative qualification	Not done Not done QW-302.4) W-304 and QW-305) n of groove welds by radiogram	Rejected, lack o N/A	defects		in.
Root 2 Face 1 Visual examination results (Q) Radiographic test results (Q) (For alternative qualification Fillet Weld - Facture test	Not done Not done QW-302.4) W-304 and QW-305) of groove welds by radiograp N/A N/A Fillet leg size	Rejected, lack of N/A ohy) Length & percent of d	defects	N/A	in.
Root 2 Face 1 Visual examination results (Q' Radiographic test results (Q' (For alternative qualification Fillet Weld - Facture test Macro Test Fusion	Not done Not done QW-302.4) W-304 and QW-305) n of groove welds by radiogram N/A N/A Fillet leg size Hal Walling AW	Rejected, lack of N/A ohy) Length & percent of of N/A of SSCWI 05110018	defects	N/A	in.
Root 2 Face 1 Visual examination results (Q) Radiographic test results (Q) (For alternative qualification Fillet Weld - Facture test Macro Test Fusion Welding Test Conducted By Mechanical Tests Conducted	Not done Not done QW-302.4) W-304 and QW-305) n of groove welds by radiogram N/A N/A Fillet leg size Hal Walling AW	Rejected, lack of N/A ohy) Length & percent of of N/A of S SCWI 05110018	defects	N/A in.	in.
Root 2 Face 1 Visual examination results (Q) Radiographic test results (Q) (For alternative qualification Fillet Weld - Facture test Macro Test Fusion Welding Test Conducted By Mechanical Tests Conducted We certify that the statement	Not done Not done QW-302.4) W-304 and QW-305) To of groove welds by radiograp N/A N/A Fillet leg size Hal Walling AWS d By: Hal Walling AWS	Rejected, lack of N/A ohy) Length & percent of of N/A S SCWI 05110018 d that the test coupons	defects	N/A in.	in.
Root 2 Face 1 Visual examination results (Q) Radiographic test results (Q) (For alternative qualification Fillet Weld - Facture test Macro Test Fusion Welding Test Conducted By Mechanical Tests Conducted We certify that the statement	Not done Not done QW-302.4) W-304 and QW-305) n of groove welds by radiogram N/A N/A Fillet leg size Hal Walling AWS d By: Hal Walling AWS ts in this record are correct and	Rejected, lack of N/A ohy) Length & percent of d N/A S SCWI 05110018 S SCWI 05110018 d that the test coupons are ASME Code.	defects	N/A in.	in.

Case 17-36605 Document 88-2 Filed in TXSB on 05/16/18 Page 123 of 133 Blazer Inspection Inc. Welder Performance Qualification

2602 Texas Ave. Texas City, Texas

Welder's Name:	Justin Cross	TDL1	27877608	_ Stamp #: _	Unknown
Welding Process(es) Util		GMAW and FCAW		Semniautomatic	_
Welding Procedure Ident	ification # Utliz	zed by Welder for Qu	alification:	GMAW	/-FCAW 2
Base Material(s) Welded:	: SA-106 g	r. B to SA-106 gr. B	Thickness:	.386"	
Manual or Semiatuomation	c Variables for !	Each Process (QW-3	50)	Actual Values	Range Qualified
Backing (metal, weld metal,	welded from both	n sides, flux, etc. (QW-	402)	none/weld metal	with or without/with
ASME P-No.	Pl	to ASME P-No. (QV	V-403)	P1 to P1	P1-P11, 34, 4X
() Plate X	Pipe (enter dia	meter if pipe)		12.75" o.d.	2.875"-to Unlimited
Filler metal specification	(SFA): ER70	S6/E71T1 Classific	ation (QW-404)	ER70S6/E71T1	ER70S6/E71T1
Filler metal F- No.:		 		6/6	All F6
Consumable insert for G	ΓAW or PAW:			N/A	N/A
Weld deposit thickness for	or each welding	process		.193"/.193"	.386"/.386"
Welding position (1G, 5	G, etc.) (QW-40)5)		6G	All
Welding progression (upl	hill/downhill)			Down and Up/Up	Down and Up/Up
Backing gas fro GTAW,	PAW, or GMA	W; fuel gas for OFW	(QW-408)	None	With or Without
GMAW transfer mode (Q)W-409)	-		Short Circuting	Short Circuting
GTAW welding current t	N/A	N/A			
Machine Welding Varia		cess Used (QW-360)		
Direct / remote visual cor		, -		N/A	N/A
Automatic voltage contro	ol (GTAW)			N/A	N/A
Automatic joint tracking	, ,			N/A	N/A
Welding position (1G, 50	G, etc.)			N/A	N/A
Consumable insert	•			N/A	N/A
Backing (metal, weld me	tal, welded fron	n both sides, flux, etc	.)	N/A	N/A
• •	·	Guided Bend T			
2 11 12 12 12 12 12 12 12 12 12 12 12 12	() OW 4(2.2 (6)			T () 001/46	2 2h /I aug D BF) Danuka
Guided Bend Tests Type Root 1	() QW-462.2 (Sid	le) Results (X) QW ot done	-462.3a. (Trans. R&F) Face 2	1ype () Q w - 40	2.3b (Long, R&F) Results Not done
Root 2		ot done		-	
Face 1		ot done			
Visual examination result		or done	Rejected lack	of fusion on root	
Radiographic test results			N/A		_
For alternative qualificat		· · · —			— N/A
Fillet Weld - Facture test			ngth & percent of	defects	N/A in.
Macro Test Fusion	N/A	Fillet leg size	igui & percent of 6	-	in.
Welding Test Conducted		Hal Walling AWS So			
Mechanical Tests Conducted		Hal Walling AWS SO			
	-			s were nrenared wel	ded and
	ionio in uno icu		•	5 more propared, wer	ava, mia
We certify that the statem	requirements o	f Section IX of the A			
	requirements o		ISME Code.		
We certify that the statem	requirements o	of Section IX of the A			

Case 17-36605 Document 88-2 Filed in TXSB on 05/16/18 Page 124 of 133 Blazer Inspection Inc. Welder Performance Qualification

2602 Texas Ave. Texas City, Texas

Welder's Name:	Justin Cross		27877608		Unknown		
Welding Process(es) Uti	lized:	GMAW and FCAV	W Type:	Semniautomatic			
Welding Procedure Iden	tification # Utliz	zed by Welder for Q	ualification:		-FCAW 2		
Base Material(s) Welded	i: SA-106 g	gr. B to SA-106 gr. E	Thickness:	.386"	_		
Manual or Semiatuomat	ic Variables for	Each Process (QW-3	350)	Actual Values	Range Qua	alified	
Backing (metal, weld metal	l, welded from bot	h sides, flux, etc. (QW	-402)	none/weld metal	with or witho	ut/with	
ASME P-No.	P1	to ASME P-No. (Q'	W-403)	PI to PI	P1-P11, 3	4, 4X	
) Plate X	Pipe (enter dia	ameter if pipe)		12.75" o.d.	2.875" to Un	limited	
Filler metal specification	1 (SFA): ER70	S6/E71T1 Classific	cation (QW-404)	ER70S6/E71T1	ER70S6/E	71T1	
Filler metal F- No.:				6/6	All Fo	5	
Consumable insert for G	TAW or PAW:			N/A	N/A N/A		
Weld deposit thickness	for each welding	process		.193"/.193"	.386"/.3	86"	
Welding position (1G,	5G, etc.) (QW-4	05)		6G	All		
Welding progression (up	Down and Up/Up	Down and	Up/Up				
Backing gas fro GTAW,	PAW, or GMA	W; fuel gas for OFW	/ (QW-408)	None	With or W	ithout	
GMAW transfer mode (QW-409)			Short Circuting	Short Circ	uting	
GTAW welding current	type/polarity	N/A	N/A				
Machine Welding Vari	able for the Pro	cess Used (QW-360	0)				
Direct / remote visual co	ontrol			N/A	N/A		
Automatic voltage contr	ol (GTAW)			N/A	N/A		
Automatic joint tracking	<u> </u>			N/A	N/A		
Welding position (1G, 5	G, etc.)			N/A	N/A		
Consumable insert				N/A	N/A		
Backing (metal, weld me	etal, welded fror	n both sides, flux, et	c.)	N/A	N/A		
		Guided Bend T	Test Results		•••		
Guided Bend Tests Type	() QW-462.2 (Sid	de) Perula (V) OV	V 462 20 (T D &E) 7	r () OW 46	2.3b (Long, R&F)	Danulta	
Root 1		ot done (X) QV	V-462.3a. (Trans. R&F) 7	туре () Q w - 40	Not done	Kesuits	
Root 2		ot done	1 400 2				
Face 1		ot done					
Visual examination resu	-	or done	Rejected lack (of fusion on root			
			N/A		_		
Ondinaranhia test results	3 (Q W - 304 and v	Q W -303)	14/7		— N/A		
Radiographic test results	stion of groove s	welds by radiography	A.		N/A		
For alternative qualification	•		•	lafacts	N/A	in	
For alternative qualifica Fillet Weld - Facture tes	t N/A	Le	ength & percent of c		N/A	in.	
For alternative qualifica Fillet Weld - Facture tes Macro Test Fusion	n/A N/A	Le Fillet leg size	ength & percent of o			in.	
For alternative qualificate Fillet Weld - Facture tes Macro Test Fusion Welding Test Conducted	N/A N/A N/A d By:	Le Fillet leg size Hal Walling AWS S	ength & percent of c N/A SCWI 05110018		N/A	in.	
For alternative qualification Fillet Weld - Facture tes Macro Test Fusion Welding Test Conducted Mechanical Tests Condu	N/A N/A N/A By:	Le Fillet leg size Hal Walling AWS S Hal Walling AWS S	N/A SCWI 05110018 CWI 05110018		N/A in.	in.	
For alternative qualification Fillet Weld - Facture test Macro Test Fusion Welding Test Conducted Mechanical Tests Conducted We certify that the states	N/A N/A d By: ucted By: ments in this rec	Le Fillet leg size Hal Walling AWS S Hal Walling AWS S ord are correct and t	congth & percent of congress N/A CWI 05110018 CWI 05110018 hat the test coupons		N/A in.	in.	
For alternative qualification Fillet Weld - Facture tes Macro Test Fusion Welding Test Conducted Mechanical Tests Condu	N/A N/A d By: ucted By: ments in this rec	Fillet leg size Hal Walling AWS S Hal Walling AWS S ord are correct and t	CWI 05110018 CWI 05110018 hat the test coupons ASME Code.		N/A in.	in.	
For alternative qualification Fillet Weld - Facture test Macro Test Fusion Welding Test Conducted Mechanical Tests Conducted We certify that the states	N/A N/A d By: ucted By: ments in this rec	Le Fillet leg size Hal Walling AWS S Hal Walling AWS S ord are correct and t	CWI 05110018 CWI 05110018 hat the test coupons		N/A in.	in.	

	Justin Cross	TDL ₁	27877608	Stamp #	: Unknown
Welding Process(es) Utiliz	zed: GMA	W and FCAV	V Type:	Semniautomat	ic
Welding Procedure Identif	ication # Utlized by V	Velder for Qu	ualification:	GMA	W-FCAW 2
Base Material(s) Welded:	SA-106 gr. B to 3	SA-106 gr. B	Thickness:	.436"	
Manual or Semiatuomatic	Variables for Each Pr	ocess (QW-3	550)	Actual Values	Range Qualified
Backing (metal, weld metal, v	velded from both sides, f	ilux, etc. (QW-	402)	none/weld meta	l with or without/with
ASME P-No.	P1 to ASM	1E P-No. (Q\	W-403)	P1 to P1	P1-P11, 34, 4X
() Plate \overline{X}	Pipe (enter diameter i	f pipe)		2.39"o.d.	1" to unlimited
Filler metal specification (SFA): ER70S6/E71	T1 Classific	ation (QW-404)	ER70S6/E71T1	ER70\$6/E71T1
Filler metal F- No.:		_		6/6	All F6
Consumable insert for GTA	AW or PAW:			N/A	N/A
Weld deposit thickness for	each welding process	S		.229"/.229"	.458"/.458"
Welding position (1G, 5G	6G	All			
Welding progression (uphi	Down and Up/Up	Down and Up/Up			
Backing gas fro GTAW, P.	None	With or Without			
GMAW transfer mode (QV	Short Circuting	Short circuting			
GTAW welding current typ	N/A	N/A			
Machine Welding Variab		ed (QW-360))		
Direct / remote visual cont	rol			N/A	N/A
Automatic voltage control	(GTAW)			N/A	N/A
Automatic joint tracking				N/A	N/A
Welding position (1G, 5G,	, etc.)			N/A	N/A
				N/A	
Consumable insert					
Consumable insert Backing (metal, weld meta	l, welded from both s	ides, flux, etc	c.)	N/A	N/A
		ides, flux, etc ided Bend T	•	N/A	N/A
Backing (metal, weld meta	Gu	ided Bend T	est Results		
Backing (metal, weld meta	Gu) QW-462.2 (Side) Results	ided Bend T	est Results 7-462.3a. (Trans. R&F) 1	Type () QW-	462.3b (Long, R&F) Results
Backing (metal, weld meta Guided Bend Tests Type (X Side 1	Gu) QW-462.2 (Side) Results Acceptable	s () QW	est Results	Type () QW-	
Backing (metal, weld metal) Guided Bend Tests Type (X Side 1 Side 2	Gu) QW-462.2 (Side) Results Acceptable Rejectable frac	s () QW e cture	est Results 7-462.3a. (Trans. R&F) 1	Type () QW-	462.3b (Long, R&F) Results
Backing (metal, weld metal) Guided Bend Tests Type (X Side 1 Side 2 Side 3) QW-462.2 (Side) Results Acceptable Rejectable frac	s () QW e cture	Y-462.3a. (Trans. R&F) T Side 4	Type ()QW-R	462.3b (Long, R&F) Results
Backing (metal, weld metal Guided Bend Tests Type (X Side 1 Side 2 Side 3 Visual examination results	Acceptable Rejectable frac Rejectable frac (QW-302.4)	s () QWe cture cture	rest Results 7-462.3a. (Trans. R&F) T Side 4 Acce	Type ()QW-R	462.3b (Long, R&F) Results
Backing (metal, weld metal Guided Bend Tests Type (X Side 1 Side 2 Side 3 Visual examination results Radiographic test results (6)	Acceptable Rejectable frac (QW-302.4) QW-304 and QW-305	s () QW e cture cture	Pest Results V-462.3a. (Trans. R&F) T Side 4 Acce	Type ()QW-R	462.3b (Long, R&F) Results ejectable fracture
Guided Bend Tests Type (X Side 1 Side 2 Side 3 Visual examination results Radiographic test results ((For alternative qualification)	Acceptable Rejectable frac Rejectable frac (QW-302.4) QW-304 and QW-305 on of groove welds by	s () QW e cture cture	Y-462.3a. (Trans. R&F) T Side 4 Accep	Type ()QW-R	462.3b (Long, R&F) Results ejectable fracture N/A
Guided Bend Tests Type (X Side 1 Side 2 Side 3 Visual examination results Radiographic test results ((For alternative qualification Fillet Weld - Facture test	Acceptable Rejectable frac Rejectable frac (QW-302.4) QW-304 and QW-305 on of groove welds by N/A	s () QW e cture cture radiography	Accepying the Acception and Accepying the Acception and Ac	Type ()QW-R	462.3b (Long, R&F) Results ejectable fracture N/A N/A in
Guided Bend Tests Type (X Side 1 Side 2 Side 3 Visual examination results Radiographic test results ((For alternative qualification Fillet Weld - Facture test	Acceptable Rejectable frac Rejectable frac Rejectable welds by N/A N/A Fillet I	s () QW e cture cture 7 7 7 7 7 8 8 1 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Accep N/A Pest Results Accep N/A N/A N/A	Type ()QW-R	462.3b (Long, R&F) Results ejectable fracture N/A
Guided Bend Tests Type (X Side 1 Side 2 Side 3 Visual examination results Radiographic test results (G (For alternative qualification Fillet Weld - Facture test Macro Test Fusion Welding Test Conducted E	Acceptable frace Rejectable frace Rejectable frace (QW-302.4) QW-304 and QW-305 on of groove welds by N/A N/A N/A Fillet I Hal Wal	s () QW e cture cture radiography Le leg size	Accepy N/A CWI 05110018	Type ()QW-R	462.3b (Long, R&F) Results ejectable fracture N/A N/A in
Guided Bend Tests Type (X Side 1 Side 2 Side 3 Visual examination results Radiographic test results ((For alternative qualification Fillet Weld - Facture test Macro Test Fusion Welding Test Conducted E Mechanical Tests Conduct	Acceptable Rejectable frac Rejectable frac Rejectable frac (QW-302.4) QW-304 and QW-305 on of groove welds by N/A N/A Fillet I By: Hal Wal	s () QW e cture cture // radiography Leg size Iling AWS So	Accep N/A CWI 05110018 Cest Results Accep N/A CWI 05110018	Pype () QW-R	462.3b (Long, R&F) Results ejectable fracture N/A N/A in.
Guided Bend Tests Type (X Side 1 Side 2 Side 3 Visual examination results Radiographic test results (G (For alternative qualification of the second of the	Acceptable Rejectable frac Rej	cture cture cture leg size lling AWS Scorrect and the	Acception N/A CWI 05110018 CWI 05110018 cut Results Acception N/A CWI 05110018 CWI 05110018	Pype () QW-R	462.3b (Long, R&F) Results ejectable fracture N/A N/A in.
Guided Bend Tests Type (X Side 1 Side 2 Side 3 Visual examination results Radiographic test results ((For alternative qualification Fillet Weld - Facture test Macro Test Fusion Welding Test Conducted E Mechanical Tests Conduct	Acceptable Rejectable frace Rejectable frace (QW-302.4) QW-304 and QW-305 on of groove welds by N/A N/A Fillet I By: Hal Wal ed By: Hal Wal erequirements of Section	cture cture Leg size Illing AWS SC correct and the AMS of the AMS	Acception N/A CWI 05110018 CWI 05110018 cut Results Acception N/A CWI 05110018 CWI 05110018	Pype () QW-R	462.3b (Long, R&F) Results ejectable fracture N/A N/A in.
Guided Bend Tests Type (X Side 1 Side 2 Side 3 Visual examination results Radiographic test results (G (For alternative qualification of the second of the	Acceptable Rejectable frace Rejectable frace (QW-302.4) QW-304 and QW-305 on of groove welds by N/A N/A Fillet I By: Hal Wal ed By: Hal Wal erequirements of Section	cture cture cture leg size lling AWS Scorrect and the	Acception N/A CWI 05110018 CWI 05110018 cut Results Acception N/A CWI 05110018 CWI 05110018	Pype () QW-R	462.3b (Long, R&F) Results ejectable fracture N/A N/A in.

Case 17-36605 Document 88-2 Filed in TXSB on 05/16/18 Page 126 of 133

Blazer Inspection Inc.

Welder Performance Qualification

2602 Texas Ave. Texas City, Texas

Test # 180015

Fernando Garza 25017030 Stamp #: Unknown Welder's Name: TDL# Welding Process(es) Utilized: GMAW and FCAW Semniautomatic Type: **GMAW-FCAW 2** Welding Procedure Identification # Utlized by Welder for Qualification: .386" Base Material(s) Welded: SA-106 gr. B to SA-106 gr. B Range Qualified Manual or Semiatuomatic Variables for Each Process (QW-350) Actual Values none/weld metal with or without/with Backing (metal, weld metal, welded from both sides, flux, etc. (QW-402) P1-P11, 34, 4X P1 to P1 to ASME P-No. (OW-403) ASME P-No. 12.75" o.d. 2.875" to Unlimited Х Plate Pipe (enter diameter if pipe) () ER70S6/E71T1 ER70S6/E71T1 Filler metal specification (SFA): ER70S6/E71T1 Classification (QW-404) 6/6 All F6 Filler metal F- No.: N/A Consumable insert for GTAW or PAW: N/A .386"/.386" .193"/.193" Weld deposit thickness for each welding process All 6G Welding position (1G, 5G, etc.) (QW-405) Down and Up/Up Down and Up/Up Welding progression (uphill/downhill) With or Without Backing gas fro GTAW, PAW, or GMAW; fuel gas for OFW (QW-408) None Short Circuting **Short Circuting** GMAW transfer mode (QW-409) N/A N/A GTAW welding current type/polarity Machine Welding Variable for the Process Used (QW-360) Direct / remote visual control N/A N/A N/A N/A Automatic voltage control (GTAW) Automatic joint tracking N/A N/A N/A Welding position (1G, 5G, etc.) N/A N/A N/A Consumable insert Backing (metal, weld metal, welded from both sides, flux, etc.) N/A N/A **Guided Bend Test Results** Guided Bend Tests Type () QW-462.2 (Side) Results (X) QW-462.3a. (Trans. R&F) Type () QW-462.3b (Long, R&F) Results Root 1 Fail Fractured Face 2 Acceptable Root 2 Fail Fractured Face 1 Acceptable Acceptable Visual examination results (QW-302.4) Radiographic test results (OW-304 and OW-305) N/A (For alternative qualification of groove welds by radiography) N/A N/A N/A Fillet Weld - Facture test Length & percent of defects in. N/A Fillet leg size in. Macro Test Fusion Hal Walling AWS SCWI 05110018 Welding Test Conducted By: Hal Walling AWS SCWI 05110018 Mechanical Tests Conducted By: We certify that the statements in this record are correct and that the test coupons were prepared, welded, and tested in accordance with requirements of Section IX of the ASME Code. Organization: Date: 2 March 2018 By:

Case 17-36605 Document 88-2 Filed in TXSB on 05/16/18 Page 127 of 133 Blazer Inspection Inc. Welder Performance Qualification

2602 Texas Ave. Texas City, Texas

Welder's Name:	Jason Moore	TDL _!	25320854	_ S	tamp #:	Ulikilowii	
Welding Process(es) Utilize	ed: GMA	W and FCAV	V Type:	Semnia	utomatic	_	
Welding Procedure Identific	cation # Utlized by V	Velder for Qu	alification:		GMAW-	FCAW 2	
Base Material(s) Welded:	SA-106 gr. B to 5	SA-106 gr. B	Thickness:	.43	5"	_	
Manual or Semiatuomatic V	ariables for Each Pr	ocess (QW-3	50)	Actual \	/alues	Range, Qu	alified
Backing (metal, weld metal, we	elded from both sides, f	lux, etc. (QW-	402)	none/wel	d metal	with or witho	ut/with
ASME P-No.	P1 to ASM	IE P-No. (Q\	V-403)	P1 to	P1	P1-P11, 3	4, 4X
() Plate X P	ipe (enter diameter i	f pipe)		2.39"	o.d.	1" to unli	nited
Filler metal specification (S	FA): ER70S6/E71	T1 Classific	ation (QW-404)	ER70S6	E71T1	ER70S6/E	71T1
Filler metal F- No.:				6/0	5	All F	6
Consumable insert for GTA	.W or PAW:			N/.	4	N/A	
Weld deposit thickness for e	each welding process	5		.229"/.229"		.458"/.4	58"
Welding position (1G, 5G,				60		All	
Welding progression (uphill				Down and	Up/Up	Down and	Up/Up
Backing gas fro GTAW, PA	None		With or W	ithout			
GMAW transfer mode (QW	•	_	,	Short Circuting		Short circ	uting
GTAW welding current type	N/A		N/A				
Machine Welding Variable	•	ed (OW-360)				
Direct / remote visual contro			,	N/.	4	N/A	
Automatic voltage control (N/A		N/A	
Automatic joint tracking	,			N/A		N/A	
Welding position (1G, 5G,	etc.)					N/A	
Consumable insert	,					N/A	
Backing (metal, weld metal,	welded from both s	ides, flux, etc	:.)			N/A	
(,		ided Bend T					
	C n	IUCU DCIIU I	COL MCOULD				
Guided Bend Tests Type (X)	QW-462.2 (Side) Results		'-462.3a. (Trans. R&F) 1	Гуре (.3b (Long, R&F)	Results
Side 1	QW-462.2 (Side) Results Acceptable	e	7-462.3a. (Trans. R&F) 7 Side 4	Гуре (.3b (Long, R&F) Acceptable	Results
Side 1 Side 2	QW-462.2 (Side) Results Acceptable	e	•	Гуре (Results
Side 1 Side 2 Side 3	QW-462.2 (Side) Results Acceptable Acceptable Acceptable	e	Side 4				Results
Side 1 Side 2 Side 3 Visual examination results (QW-462.2 (Side) Results Acceptable Acceptable Acceptable (QW-302.4)	e	Side 4	ptable			Results
Side 1 Side 2 Side 3 Visual examination results (Q	QW-462.2 (Side) Results Acceptable Acceptable Acceptable (QW-302.4) (W-304 and QW-305)	e	Side 4 Acce	ptable		Acceptable	Results
Side 1 Side 2 Side 3 Visual examination results (Radiographic test results (Q (For alternative qualification)	QW-462.2 (Side) Results Acceptable Acceptable Acceptable (QW-302.4) (W-304 and QW-305) n of groove welds by	e e e e e e e e e e e e e e e e e e e	Acce	ptable		Acceptable N/A	
Side 1 Side 2 Side 3 Visual examination results (Q	QW-462.2 (Side) Results Acceptable Acceptable Acceptable (QW-302.4) PW-304 and QW-305 n of groove welds by N/A	e e e e e e e e e e e e e e e e e e e	Acce N/A) ngth & percent of c	ptable A		Acceptable N/A N/A	Results in.
Side 1 Side 2 Side 3 Visual examination results (Q Radiographic test results (Q (For alternative qualification) Fillet Weld - Facture test Macro Test Fusion	QW-462.2 (Side) Results Acceptable Acceptable Acceptable (QW-302.4) PW-304 and QW-305 n of groove welds by N/A N/A Fillet	radiography Le	Acce N/A) ngth & percent of o	ptable A		Acceptable N/A	
Side 1 Side 2 Side 3 Visual examination results (Radiographic test results (Q (For alternative qualification Fillet Weld - Facture test Macro Test Fusion Welding Test Conducted By	QW-462.2 (Side) Results Acceptable Acceptable Acceptable (QW-302.4) W-304 and QW-305 n of groove welds by N/A N/A Fillet Hal Wal	e e e e e e e e e e e e e e e e e e e	Acce	ptable A		Acceptable N/A N/A	
Side 1 Side 2 Side 3 Visual examination results (Q Radiographic test results (Q (For alternative qualification) Fillet Weld - Facture test Macro Test Fusion Welding Test Conducted By Mechanical Tests Conducte	QW-462.2 (Side) Results Acceptable Acceptable Acceptable (QW-302.4) PW-304 and QW-305 In of groove welds by N/A N/A Fillet Hal Wal Hal Wal	radiography Le leg size lling AWS So	Acce N/A) ngth & percent of o N/A CWI 05110018	ptable A defects		N/A N/A in.	
Side 1 Side 2 Side 3 Visual examination results (Q Radiographic test results (Q (For alternative qualification Fillet Weld - Facture test Macro Test Fusion Welding Test Conducted By Mechanical Tests Conducte We certify that the statemen	QW-462.2 (Side) Results Acceptable Acceptable Acceptable (QW-302.4) PW-304 and QW-305 In of groove welds by N/A N/A Fillet Hal Wal dd By: Hal Wal ts in this record are of	radiography Le leg size lling AWS S alling AWS S correct and the	Acce N/A) ngth & percent of o N/A CWI 05110018 CWI 05110018 nat the test coupons	ptable A defects		N/A N/A in.	
Side 1 Side 2 Side 3 Visual examination results (Q Radiographic test results (Q (For alternative qualification) Fillet Weld - Facture test Macro Test Fusion Welding Test Conducted By Mechanical Tests Conducte	QW-462.2 (Side) Results Acceptable Acceptable Acceptable (QW-302.4) W-304 and QW-305 n of groove welds by N/A N/A Fillet Hal Wal d By: Hal Wal ats in this record are of	radiography Le leg size lling AWS S alling AWS S correct and the	Acce N/A) ngth & percent of o N/A CWI 05110018 CWI 05110018 nat the test coupons	ptable A defects		N/A N/A in.	

Case 17-36605 Document 88-2 Filed in TXSB on 05/16/18 Page 128 of 133 Blazer Inspection Inc. Welder Performance Qualification

2602 Texas Ave. Texas City, Texas

		Jason Moore	TDLi	25320854	_ S	tamp #:	Unknown	
Welding Process(es	s) Utilized	d: C	MAW and FCAV	V Type:	Semnia	utomatic		
Welding Procedure	Identific	ation # Utlized	by Welder for Q	ualification:		GMAW	FCAW 2	
Base Material(s) W	'elded:	SA-106 gr.	B to SA-106 gr. E	Thickness:	.38	6"	•	
Manual or Semiatu	omatic V	ariables for Ea	ch Process (QW-3	50)	Actual	Values	Range Qua	lified
Backing (metal, weld	metal, wel	lded from both si	des, flux, etc. (QW-	402)	none/we	ld metal	with or withou	ıt/with
ASME P-No.	P	1 to	ASME P-No. (Q	W-403)	P1 to	P1	P1-P11, 34	, 4X
() Plate X	— Pi	pe (enter diame	eter if pipe)		12.75	' o.d.	2.875" to Unl	imited
Filler metal specific	cation (SF	A): ER70S6	/E71T1 Classific	ation (QW-404)	ER70S6	/E71T1	ER70S6/E7	1T1
Filler metal F- No.:	:				6/	6	All F6	
Consumable insert	for GTAV	W or PAW:			N/	A	N/A	
Weld deposit thick	ness for e	ach welding pr	ocess		.193"/	.193"	.386"/.38	6"
Welding position (1G, 5G, 6	etc.) (QW-405)	ı		60	3	All	
Welding progression	on (uphill	/downhill)			Down and	d Up/Up	Down and U	p/Up
Backing gas fro GTAW, PAW, or GMAW; fuel gas for OFW (QW-408)						ne	With or Wi	hout
GMAW transfer mode (QW-409)						rcuting	Short Circu	iting
GTAW welding current type/polarity						A	N/A	
Machine Welding	Variable	for the Proce	ss Used (QW-360))				
Direct / remote visu	ual contro	ol			N/	A	N/A	
Automatic voltage	control (C	JTAW)			N/A		N/A	
Automatic joint tra	cking				N/A		N/A	
Welding position (1G, 5G, e	tc.)			N/	A	N/A	
Consumable insert					N/	A		
Backing (metal, we	ld metal,	welded from b	oth sides, flux, et	c.)	N/A		N/A	
			Guided Bend T	est Results				-
Guided Bend Tests Type () QW-462.2 (Side) Results (X) QW-462.3a. (Trans. R&F) T						() OW-462	3b (Long R&F) R	esults
	()	· · · ·	· · · · ·		Гуре		.3b (Long, R&F) R Acceptable	esults
Root 1	()	Rejectable	e. Fracture	7-462.3a. (Trans. R&F) 7	Гуре		.3b (Long, R&F) R Acceptable	esults
	()	Rejectable Rejectable	e. Fracture		Гуре			esults
Root 1 Root 2 Face 1		Rejectable Rejectable Accep	e. Fracture	Face 2	ptable			esults
Root 1 Root 2 Face 1 Visual examination	results (0	Rejectable Rejectable Accep QW-302.4)	e. Fracture e, fracture otable	Face 2	ptable			esults
Root 1 Root 2 Face 1 Visual examination Radiographic test re	results (Q	Rejectable Rejectable Accep QW-302.4) W-304 and QW	e. Fracture e, fracture ptable /-305)	Face 2 Acce	ptable		Acceptable	esults
Root 1 Root 2 Face 1 Visual examination Radiographic test re (For alternative qua	results (Qvesults (Qvalification	Rejectable Rejectable Accep QW-302.4) W-304 and QW of groove wel	e. Fracture e, fracture otable /-305) ds by radiography	Acce	ptable		Acceptable N/A	
Root 1 Root 2 Face 1 Visual examination Radiographic test re (For alternative qua	results (Qvesults (Qvalification	Rejectable Rejectable Accep QW-302.4) W-304 and QW of groove well N/A	e. Fracture e, fracture ptable /-305) ds by radiography	Acce N/A ngth & percent of c	ptable A		N/A N/A	in.
Root 1 Root 2 Face 1 Visual examination Radiographic test re (For alternative qual Fillet Weld - Facture Macro Test Fusion	results (Q) esults (Q) alification re test	Rejectable Rejectable Accep QW-302.4) W-304 and QW of groove well N/A N/A F	e. Fracture e, fracture otable /-305) ds by radiography	Acce N/A r) ngth & percent of o	ptable A		Acceptable N/A	
Root 1 Root 2 Face 1 Visual examination Radiographic test ru (For alternative qua Fillet Weld - Factur Macro Test Fusion Welding Test Cond	results (Qualification re test	Rejectable Rejectable Accep QW-302.4) W-304 and QW of groove wel N/A N/A F Ha	e. Fracture e, fracture otable 7-305) ds by radiography Le illet leg size d Walling AWS S	Acce N/A () ngth & percent of c N/A CWI 05110018	ptable A		N/A N/A	
Root 1 Root 2 Face 1 Visual examination Radiographic test re (For alternative qual Fillet Weld - Facture Macro Test Fusion Welding Test Cond Mechanical Tests C	results (QV esults (QV alification re test	Rejectable Rejectable Accep QW-302.4) W-304 and QW of groove well N/A N/A F: Ha d By: Ha	e. Fracture e, fracture otable 7-305) ds by radiography Le illet leg size d Walling AWS Se al Walling AWS Se	Acce N/A T) ngth & percent of c N/A CWI 05110018	ptable A defects		N/A N/A in.	
Root 1 Root 2 Face 1 Visual examination Radiographic test re (For alternative qua Fillet Weld - Factur Macro Test Fusion Welding Test Cond Mechanical Tests C	a results (Qualification re test	Rejectable Rejectable Accep QW-302.4) W-304 and QW of groove well N/A N/A F Hat By: Hat sin this records	c. Fracture e, fracture otable /-305) ds by radiography Le illet leg size dl Walling AWS Sal Walling AWS Sal are correct and the	Acce N/A P) Ingth & percent of of N/A CWI 05110018 CWI 05110018 nat the test coupons	ptable A defects		N/A N/A in.	
Root 1 Root 2 Face 1 Visual examination Radiographic test re (For alternative qual Fillet Weld - Facture Macro Test Fusion Welding Test Cond Mechanical Tests C	a results (Qualification re test	Rejectable Rejectable Accep QW-302.4) W-304 and QW of groove well N/A N/A F Hat By: Hat sin this records	e. Fracture e, fracture otable 7-305) ds by radiography Le illet leg size d Walling AWS So are correct and the section IX of the A	Acce N/A P) Ingth & percent of of N/A CWI 05110018 CWI 05110018 nat the test coupons	ptable A defects		N/A N/A in.	
Root 1 Root 2 Face 1 Visual examination Radiographic test re (For alternative qua Fillet Weld - Factur Macro Test Fusion Welding Test Cond Mechanical Tests C	a results (Qualification re test	Rejectable Rejectable Accep QW-302.4) W-304 and QW of groove well N/A N/A F Hat By: Hat sin this records	c. Fracture e, fracture otable /-305) ds by radiography Le illet leg size dl Walling AWS Sal Walling AWS Sal are correct and the	Acce N/A P) Ingth & percent of of N/A CWI 05110018 CWI 05110018 nat the test coupons	ptable A defects		N/A N/A in.	

Case 17-36605 Document 88-2 Filed in TXSB on 05/16/18 Page 129 of 133 Blazer Inspection Inc. Welder Performance Qualification

2602 Texas Ave. Texas City, Texas

	Jason Moore	TDL1	25320854	Stamp #: Unknown		
Welding Process(es) Uti	ilized: GM	AW and FCAW	V Type:	Semniautomatic		
Welding Procedure Iden	tification # Utlized by	Welder for Qu	nalification:	GMAV	V-FCAW 2	
Base Material(s) Welded	d: SA-106 gr. B t	o SA-106 gr. B	Thickness:	.386"		
Manual or Semiatuomat	ic Variables for Each	Process (QW-3	50)	Actual Values	Range Qua	lified
Backing (metal, weld metal	l, welded from both sides	s, flux, etc. (QW-	402)	None/Weld Metal	With or Withou	t/ With
ASME P-No.	P1 to AS	SME P-No. (QV	V-403)	P1 to P1	P1-P11, 34	, 4X
() Plate X	Pipe (enter diameter	r if pipe)		12.75" o.d.	2.875" to Unl	imited
Filler metal specification	n (SFA): ER70S6/E	71T1 Classific	ation (QW-404)	ER70S6/E71T1	ER70S6/E7	71TI
Filler metal F- No.:	 			6/6	All F6	
Consumable insert for G	GTAW or PAW:			N/A N/A		
Weld deposit thickness	for each welding proce	ess		.193"/.193"	.386"/.38	6"
Welding position (1G,	5G, etc.) (QW-405)			6G	All	- "
Welding progression (up	phill/downhill)			Down and Up/Up	Down and U	Jp/Up
Backing gas fro GTAW,	, PAW, or GMAW; fu	el gas for OFW	(QW-408)	None	With or Wi	thout
GMAW transfer mode (QW-409)			Short Circuting	Short Circu	ıting
GTAW welding current	type/polarity	N/A	N/A			
Machine Welding Vari	iable for the Process	Used (QW-360)		•	
Direct / remote visual co	ontrol	N/A	N/A			
Automatic voltage contr	rol (GTAW)			N/A	N/A	
Automatic joint tracking	3			N/A	N/A	
Welding position (1G, 5	iG, etc.)			N/A	N/A	
Consumable insert				N/A	N/A	
Backing (metal, weld me	etal, welded from both	ı sides, flux, etc	:.)	N/A	N/A	
	C	Guided Bend T	est Results			
	() QW-462.2 (Side) Resi	ults (X) QW	7-462.3a. (Trans. R&F) 1			
Buided Bend Tests Type	lvne ()()W-4	62.3b (Long, R&F) R	esults			
Guided Bend Tests Type Root 1			Face 2	Type ()QW-4	62.3b (Long, R&F) R Acceptable	lesults
	Accepta	ble		Type ()QW-4	62.3b (Long, R&F) R Acceptable	esults
Root 1	Acceptal Acceptal	ble ble		Type ()QW-4		esults
Root 1 Root 2 Face 1	Acceptal Acceptal Acceptal	ble ble	Face 2			esults
Root 2 Face 1 Visual examination resu	Accepta Accepta Accepta Accepta Ilts (QW-302.4)	ble ble	Face 2	ptable		esults.
Root 1 Root 2 Face 1 Visual examination results	Acceptal Acceptal Acceptal Acceptal Acceptal alts (QW-302.4) s (QW-304 and QW-3	ble ble ble ble ble ble	Face 2 Acce	ptable	Acceptable	esults
Root 1 Root 2 Face 1 Visual examination results Radiographic test results (For alternative qualification)	Acceptal	ble ble ble 05) by radiography	Face 2 Acce N/A	ptable	Acceptable N/A	
Root 1 Root 2 Face 1 Visual examination results Radiographic test results (For alternative qualification of the second of the se	Acceptal Acceptal Acceptal Acceptal Acceptal alts (QW-302.4) s (QW-304 and QW-3 ation of groove welds st N/A	ble ble ble 05) by radiography Lei	Face 2 Acce	ptable A defects	Acceptable	in.
Root 1 Root 2 Face 1 Visual examination results Radiographic test results (For alternative qualification of the content of the	Acceptal Acc	ble ble 05) by radiography Letet leg size	Acce N/A) ngth & percent of o	ptable A defects	Acceptable N/A N/A	
Root 1 Root 2 Face 1 Visual examination results Radiographic test results (For alternative qualification of the second of t	Acceptal Acc	ble ble 05) by radiography Letet leg size Valling AWS So	Acce N/A) ngth & percent of o N/A CWI 05110018	ptable A defects	Acceptable N/A N/A	
Root 1 Root 2 Face 1 Visual examination results Radiographic test results (For alternative qualification of the control of the	Acceptal Acc	ble ble 05) by radiography Letet leg size Valling AWS SO	Acce N/A) ngth & percent of o N/A CWI 05110018	ptable A defects	N/A N/A in.	
Root 1 Root 2 Face 1 Visual examination results (For alternative qualification of the control	Acceptal Acc	ble ble 05) by radiography Let et leg size Valling AWS SO Walling AWS SO	Acce N/A ngth & percent of o N/A CWI 05110018 CWI 05110018 nat the test coupons	ptable A defects	N/A N/A in.	
Root 1 Root 2 Face 1 Visual examination results Radiographic test results (For alternative qualification of the control of the	Acceptal Acc	ble ble ble 05) by radiography Letet leg size Valling AWS So Walling AWS So The correct and the	Acce N/A ngth & percent of o N/A CWI 05110018 CWI 05110018 nat the test coupons	ptable A defects	N/A N/A in.	
Root 1 Root 2 Face 1 Visual examination results (For alternative qualification of the control	Acceptal Acc	ble ble 05) by radiography Let et leg size Valling AWS SO Walling AWS SO	Acce N/A ngth & percent of o N/A CWI 05110018 CWI 05110018 nat the test coupons	ptable A defects	N/A N/A in.	

Case 17-36605 Document 88-2 Filed in TXSB on 05/16/18 Page 130 of 133 Blazer Inspection Inc. Welder Performance Qualification

2602 Texas Ave. Texas City, Texas

Welder's Name:	Javier Fuentes	TDLi	6179621	s	amp #: _ \	Jnknown	_
Welding Process(es) Util	ized: G	MAW and FCAV	/ Type:	Semnia	utomatic		
Welding Procedure Ident	ification # Utlized	by Welder for Qu	alification:		GMAW-	FCAW 2	
Base Material(s) Welded	: SA-106 gr. I	3 to SA-106 gr. B	Thickness:	.430	5"	_	
Manual or Semiatuomati	c Variables for Eac	h Process (QW-3	50)	Actual \	/alues	Range Qua	alified
Backing (metal, weld metal,	, welded from both si	des, flux, etc. (QW-	402)	none/wel	d metal	with or witho	ut/with
ASME P-No.	P1 to a	ASME P-No. (QV	V-403)	P1 to	P1	P1-P11, 3	4, 4X
() Plate X	Pipe (enter diame	ter if pipe)		2.39"	o.d.	1" to unlir	nited
Filler metal specification	(SFA): ER70S6/	E71T1 Classific	ation (QW-404)	ER70S6/	E71TI	ER70S6/E	71T1_
Filler metal F- No.:	·			6/6	5	All Fo	5
Consumable insert for G	TAW or PAW:			N/2	\	N/A	
Weld deposit thickness for	or each welding pro	ocess		.229"/.	229"	.458"/.4	58"
Welding position (1G, 5	G, etc.) (QW-405)			60	6G A		
Welding progression (up	hill/downhill)			Down and	Up/Up	Down and	Up/Up
Backing gas fro GTAW,	PAW, or GMAW;	fuel gas for OFW	(QW-408)	None		With or W	ithout
GMAW transfer mode (C	(W-409)			Short Circuting		Short circ	uting
GTAW welding current t	N/A		N/A				
Machine Welding Varia	able for the Proces	s Used (QW-360)				
Direct / remote visual con	ntrol	N/2	<u> </u>	N/A			
Automatic voltage contro	ol (GTAW)			N/A		N/A	
Automatic joint tracking				N/A		N/A	
Welding position (1G, 50	3, etc.)			N/2	4	N/A	
Consumable insert				N/2	A	N/A	
Backing (metal, weld me	tal, welded from be	oth sides, flux, etc	i.)	N/A		N/A	
		Guided Bend T	est Results				
Guided Bend Tests Type ((X) QW-462.2 (Side) F	Results () OW	-462.3a. (Trans. R&F) T	`уре () QW-462	3b (Long, R&F)	Results
Side 1	Accep		Side 4	<u>,, </u>		Acceptable	
Side 2	Accep	table					
Side 3	Accep	table					
Visual examination resul	ts (OW-302.4)		Accep	ptable			
		/-305)	N/A	<u> </u>		-	
	• •					– N/A	
Radiographic test results	tion of groove weld	is dy radiogradny)				in.
Radiographic test results (For alternative qualifica	•			lefects		N/A	
Radiographic test results (For alternative qualifica Fillet Weld - Facture test	: N/A	Le) ngth & percent of d N/A	-		N/A in.	
Radiographic test results (For alternative qualifica Fillet Weld - Facture test Macro Test Fusion	N/A F		ngth & percent of d	-			
Radiographic test results (For alternative qualifica Fillet Weld - Facture test Macro Test Fusion Welding Test Conducted	N/A FI	Le	ngth & percent of d N/A CWI 05110018	-			
Radiographic test results (For alternative qualifica Fillet Weld - Facture test Macro Test Fusion	N/A File By: Ha	Le illet leg size I Walling AWS S I Walling AWS S	ngth & percent of d N/A CWI 05110018		nred, weld	in.	
Radiographic test results (For alternative qualifica Fillet Weld - Facture test Macro Test Fusion Welding Test Conducted Mechanical Tests Condu	N/A N/A Fill By: Ha cted By: Ha nents in this record	Le illet leg size I Walling AWS S Il Walling AWS S are correct and the	ngth & percent of d N/A CWI 05110018 CWI 05110018 nat the test coupons		ared, weld	in.	
Radiographic test results (For alternative qualifica Fillet Weld - Facture test Macro Test Fusion Welding Test Conducted Mechanical Tests Condu We certify that the staten	N/A N/A Fill By: Ha cted By: Ha nents in this record	Le illet leg size I Walling AWS S Il Walling AWS S are correct and the	ngth & percent of d N/A CWI 05110018 CWI 05110018 nat the test coupons		nred, weld	in.	
Radiographic test results (For alternative qualifica Fillet Weld - Facture test Macro Test Fusion Welding Test Conducted Mechanical Tests Condu We certify that the staten	N/A N/A Fill By: Ha cted By: Ha nents in this record	Le illet leg size I Walling AWS S I Walling AWS S are correct and the	ngth & percent of d N/A CWI 05110018 CWI 05110018 nat the test coupons		ared, weld	in.	

Case 17-36605 Document 88-2 Filed in TXSB on 05/16/18 Page 131 of 133 Blazer Inspection Inc. Welder Performance Qualification

2602 Texas Ave. Texas City, Texas

Welder's Name: _	Ja	avier Fuentes	TDL#	6179621	_ St	amp #:	Unknown	
Welding Process(s) Utilized	l: GM	AW and FCAV	V Type:	Semnia	utomatic	_	
Welding Procedur	e Identifica	ation # Utlized by	Welder for Qu	ualification:		GMAW-	FCAW 2	
Base Material(s) V	Velded:	SA-106 gr. B t	o SA-106 gr. B	Thickness:	.386	,"		
Manual or Semiat	ıomatic Va	ariables for Each	Process (QW-3	50)	Actual V	'alues	Range Qua	alified
Backing (metal, wel	i metal, wel	ded from both side	s, flux, etc. (QW-	402)	None/Wel	d Metal	With or Witho	ut/ With
ASME P-No.	P	1 to AS	SME P-No. (QV	W-403)	P1 to	P1	P1-P11, 3	4, 4X
) Plate	 ζ Pi	pe (enter diamete	r if pipe)		12.75"	o.d.	2.875" to Un	limited
Filler metal specif	ication (SF	A): <u>ER70S6/E</u>	71T1 Classific	ation (QW-404)	ER70S6/	E71T1	ER70S6/E	71T1
Filler metal F- No	. :				6/6		All Fo	5
Consumable inser	for GTAV	V or PAW:			N/A		N/A	
Weld deposit thick	mess for ea	ach welding proc	ess		.193"/.193"		.386"/.3	86"
Welding position	(1G, 5G, e	tc.) (QW-405)			6G		All	
Welding progression (uphill/downhill)						Up/Up	Down and	Up/Up
Backing gas fro GTAW, PAW, or GMAW; fuel gas for OFW (QW-408)						e	With or W	ithout
GMAW transfer n	ode (QW-	409)			Short Circuting		Short Circ	uting
GTAW welding current type/polarity							N/A	
Machine Welding	Variable	for the Process	Used (QW-360))				
Direct / remote visual control						<u> </u>	N/A	
Automatic voltage	control (G	TAW)			N/A		N/A	
Automatic joint tra	acking				N/A		N/A	
Welding position	(1G, 5G, et	ic.)			N/A		N/A	
Consumable inser	:				N/A	_	N/A	
Backing (metal, w	eld metal,	welded from both	sides, flux, etc	c.)	N/A		N/A	
		(Guided Bend T	est Results				
Guided Bend Tests Typ	e ()	QW-462.2 (Side) Res	ults (X) OW	/-462.3a. (Trans. R&F) T	vpe () QW-462	.3b (Long, R&F)	Results
Root 1		Accepta	T .	Face 2	Ï		Acceptable	
Root 2		Accepta	ble			-		
Face 1		Accepta	ble			-		
Visual examinatio	n results ((QW-302.4)		Acce	ptable			
Radiographic test		•	_				– N/A	
Radiographic test (For alternative qu	alification	of groove welds	by radiography	')				
Radiographic test (For alternative qu Fillet Weld - Facti		of groove welds N/A	• • • •	•	lefects		N/A	ın.
For alternative qu		N/A	• • • •	ngth & percent of c	_		N/A in.	ın.
(For alternative que Fillet Weld - Factor Macro Test Fusion	ire test	N/A N/A Fille	Le	ngth & percent of c	_			ın.
(For alternative que Fillet Weld - Factor Test Fusion Welding Test Con	ducted By:	N/A Fille	Le et leg size	ngth & percent of c N/A CWI 05110018	_			ın.
(For alternative question (For alternative question) Macro Test Fusion Welding Test Con Mechanical Tests	ducted By:	N/A N/A Fille Hal V Hal V	Le et leg size Valling AWS S Walling AWS S	ngth & percent of c N/A CWI 05110018		red, weld	in.	in.
(For alternative question Fillet Weld - Factor Macro Test Fusion Welding Test Con Mechanical Tests We certify that the	ducted By: Conducted	N/A N/A Fille Hal V By: Hal s in this record ar	Let leg size Valling AWS S Walling AWS Sore correct and the	ngth & percent of c N/A CWI 05110018 CWI 05110018 nat the test coupons		red, weld	in.	ın.
(For alternative question (For alternative question) Macro Test Fusion Welding Test Con Mechanical Tests	ducted By: Conducted	N/A N/A Fille Hal V By: Hal s in this record ar	Let leg size Valling AWS S Walling AWS Sore correct and the	ngth & percent of c N/A CWI 05110018 CWI 05110018 nat the test coupons		red, weld	in.	in.
(For alternative question Fillet Weld - Factor Macro Test Fusion Welding Test Con Mechanical Tests We certify that the	ducted By: Conducted	N/A N/A Fille Hal V By: Hal s in this record ar	Let leg size Valling AWS S Walling AWS Sore correct and the state of t	ngth & percent of c N/A CWI 05110018 CWI 05110018 nat the test coupons		red, weld	in.	ın.

Case 17-36605 Document 88-2 Filed in TXSB on 05/16/18 Page 132 of 133 Blazer Inspection Inc. Welder Performance Qualification

2602 Texas Ave. Texas City, Texas

Base Material(s) Welded: Manual or Semiatuomation Backing (metal, weld metal,	ification # Utliz		and FCAW	Type:	Semniau	tomatic		
Base Material(s) Welded: Manual or Semiatuomation Backing (metal, weld metal,		Welding Procedure Identification # Utlized by Welder for Qualification:						
Manual or Semiatuomation		zed by We	lder for Qu	alification:			GT, FC 93	
Backing (metal, weld metal,	SA-106 g	gr. B to SA	A-106 gr. B	Thickness:	.375	·	_	
- .	Variables for	Each Proc	ess (QW-3	50)	Actual V	alues	Range Qu	
ASME P-No. P1 to ASME P-No. (QW-403)						Metal	With or With	
ASME P-No.	Pl	to ASME	P-No. (QW	/-403)	P1 to		P1-P11, 3	
() Plate X	Pipe (enter dia	ameter if p	oipe)		12.75"		2.875" to U	
Filler metal specification	(SFA): <u>ER70</u>	S6/E71T1	Classifica	ation (QW-404)	ER70S6/E	271T1	ER70S6/I	E71T1
Filler metal F- No.:					6/6		All F	
Consumable insert for G7	TAW or PAW:				N/A		N/A	
Weld deposit thickness fo	or each welding	process			.1875"/.1	875"	.375"/.3	375"
Welding position (1G, 50	G, etc.) (QW-4	05)			6G		All	
Welding progression (uphill/downhill)						Up/Up	Down and	
Backing gas fro GTAW, PAW, or GMAW; fuel gas for OFW (QW-408)						<u> </u>	With or W	√ithout
GMAW transfer mode (QW-409)						S.C./Spray		pray
GTAW welding current type/polarity						N/A		\
Machine Welding Varia	ble for the Pro	cess Used	i (QW-360))				
Direct / remote visual control							N/A	L
Automatic voltage contro	l (GTAW)				N/A		N/A	
Automatic joint tracking					N/A		N/A	<u> </u>
Welding position (1G, 50	3, etc.)				N/A		N/A	\
Consumable insert					N/A		N/A	
Backing (metal, weld met	al, welded from	n both sid	es, flux, etc	.)	N/A		N/A	
		Guid	led Bend To	est Results				
Guided Bend Tests Type (() QW-462.2 (Sid	da) Paculte	(Y) OW	-462.3a. (Trans. R&F) T	Syme () OW-467	2.3b (Long, R&F)	Results
Root 1		ceptable	(x) Q	Face 2	1,700		Acceptable	
Root 2		ceptable				*		
Face 1		ceptable				-,		
Visual examination result				Acce	ptable			
Radiographic test results		OW-305)		N/A			_	
(For alternative qualificat			adiography				– N/A	
Fillet Weld - Facture test	. —	words by i		gth & percent of c	lefects		N/A	in.
Macro Test Fusion	N/A	Fillet le		N/A	_		in.	
Welding Test Conducted		•	Hal Wallin					
Mechanical Tests Conducted			Hal Walli					
We certify that the statem	-	ord are co			were nrena	red weld	ied and	
tested in accordance with					propa		,	
In accordance with	1-quironionio (ganization:	Own.				
			•					

Case 17-36605 Document 88-2 Filed in TXSB on 05/16/18 Page 133 of 133 Blazer Inspection Inc. Welder Performance Qualification

2602 Texas Ave. Texas City, Texas

	Reynaldo Supul		2671454	-	: Unknown
Welding Process(es) Util		GMAW and FCA		Semniautoma	
Welding Procedure Ident		•	-		И, GT, FC 93
Base Material(s) Welded		r. B to SA-106 gr.		.436"	
Manual or Semiatuomatio			•	Actual Values none/weld meta	Range Qualified with or without/with
Backing (metal, weld metal,				P1 to P1	P1-P11, 34, 4X
ASME P-No.		to ASME P-No. (Q	(W-403)	2.375"o.d.	1" to unlimited
() Plate X	Pipe (enter dia	• • •		ER70S6/E71T	
Filler metal specification	(SFA): <u>ER70</u>	S6/E71T1 Classifi	cation (QW-404)	6/6	All F6
Filler metal F- No.:					
Consumable insert for G				N/A	
Weld deposit thickness for	_	-		.218"/.218"	436"/.436"
Welding position (1G, 5	6G	All All			
Welding progression (upl	Down and Up/U				
Backing gas fro GTAW,	None	With or Without			
GMAW transfer mode (C	S.C./Spray	S.C./Spray			
GTAW welding current t	N/A	N/A			
Machine Welding Varia	ble for the Pro	cess Used (QW-36	0)		
Direct / remote visual con	N/A	N/A			
Automatic voltage contro	ol (GTAW)			N/A	N/A
Automatic joint tracking				N/A	N/A
Welding position (1G, 50	3, etc.)			N/A	N/A
Consumable insert				N/A	N/A
Backing (metal, weld me	tal, welded fron	n both sides, flux, e	tc.)	N/A_	N/A
		Guided Bend	Test Results		
Guided Bend Tests Type ((X) QW-462.2 (Sid	le) Results () Q	W-462.3a. (Trans. R&F) T	ype ()QW	-462.3b (Long, R&F) Results
Side 1	Ac	ceptable	Side 4		Acceptable
Side 2	Ac	ceptable			
Side 3		ceptable			
Visual examination resul	ts (OW-302.4)	_ <u></u>	Acce	ptable	
· ibaai citaiiiiaticii i coai					
Radiographic test results	* *	· -	v)		
Radiographic test results (For alternative qualifications)	6. 6		ength & percent of d	lefects	N/A in.
(For alternative qualification	N/A	L			in.
(For alternative qualificate Fillet Weld - Facture test			N/A	1	
(For alternative qualificate Fillet Weld - Facture test Macro Test Fusion	N/A	Fillet leg size	N/A	<u> </u>	
(For alternative qualificate Fillet Weld - Facture test Macro Test Fusion Welding Test Conducted	N/A By:	Fillet leg size Hal Wall	ing		
(For alternative qualificated Fillet Weld - Facture test Macro Test Fusion Welding Test Conducted Mechanical Tests Conducted	N/A By: cted By:	Fillet leg size Hal Wall Hal Wa	ing Iling		— — velded. and
(For alternative qualificate Fillet Weld - Facture test Macro Test Fusion Welding Test Conducted Mechanical Tests Conducted We certify that the statem	N/A By: cted By:	Fillet leg size Hal Wall Hal Wal ord are correct and	ing Hing that the test coupons		
(For alternative qualificated Fillet Weld - Facture test Macro Test Fusion Welding Test Conducted Mechanical Tests Conducted	N/A By: cted By:	Fillet leg size Hal Wall Hal Wal ord are correct and of Section IX of the	ing Hing that the test coupons ASME Code.		 velded, and
(For alternative qualificate Fillet Weld - Facture test Macro Test Fusion Welding Test Conducted Mechanical Tests Conducted We certify that the statem	N/A By: cted By:	Fillet leg size Hal Wall Hal Wal ord are correct and	ing Hing that the test coupons ASME Code.		